STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
Division of Solid Waste Management
Toxic Substances Program
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 14th Floor
Nashville, Tennessee 37243

PCB Compliance Inspection Report

Holston Army Ammunition Plant
4509 West Stone Drive
Kingsport, Hawkins, County, TN 37660
TN Project File ID: 37-0815-HAAP-02
TND003377231
(423) 578-6257

As authorized by: TSCA Section 28

Compliance Monitoring Cooperative Agreement, PCBs

State Grant #

Report Submitted by:

Elizabeth Warner– Inspector; Fed ID #10736 — Date 10/21/15

Pamela Franklin – Reviewer; Fed ID #10561 — Date 10/21/15

Adrianne White – Program Manager; Fed ID #TN-4220 — Date 10/21/15

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SUMMARY

On August 13, 2015, inspectors with Tennessee's Division of Solid Waste Management Toxic Substances Program arrived at the Holston Army Ammunition Plant office to conduct a TSCA Section 6 (e) site investigation.

Holston Army Ammunition Plant (HAAP) is an explosives production plant. The inspection covered the disposal of all equipment containing possible explosive residue and the location of PCB items onsite. The Scope of this investigation was to determine if PCBs are present in the materials burned under the HAAP TDEC RCRA and TDEC Air Pollution Control Title V permits. The inspection also followed up on the status of previously known PCB electrical equipment.

The site has two burn permits from the state of Tennessee one RCRA permit that covers waste explosives and residuals that representative stated had no possible PCBs.

The following are possible violations.

Subpart D 40CFR 761.50 (a) (1): The site is burning possible PCB Bulk material and oil being burned in open pans and burn piles, without providing any analytical data.

Subpart K 40 CFR 761.218 (d) (1): Multiple Certificates of Disposal do not match the disposed items or manifest.

Subpart C 40 CFR 761.40(a) (2): The labeled used was not the Large Mark and was not visible on PCB transformers.

Subpart B 40 CFR 761.35 (a) (1): the PCB electrical equipment that was no longer in use did not meet the marking requirements.

Subpart B 40 CFR 761.35 (a) (2): No maintenance records were available for the out of service transformers. The transformer in question was removed from service in 2011. There is no noted removed from service date. The future use of the transformer is not noted. There is no future use information

Subpart J 40 CFR 761.218 (a) (1) the certificate of disposal dated 3/24/15 does not have the EPA ID # of the two disposal facilities listed on the certificate.

Subpart J 40 CFR 761.218 (a) (2) there is a discrepancy from the manifest on one item the manifest stated that a transformer was disposed of (SN L495613PMLB) the certificate of disposal states material description as oil.

Subpart D 40 CFR 761.60 (a) (1) (A-B) Disposal method for transformers (SN L495622PMLB/ L495625PMLB) is listed as decommissioned which is not an approved disposal method. Certificate of Disposal dated 7/19/13 for un-manifested Non-PCB transformer sent for Reclamation also has a method of disposal of Decommission.

I. OPENING CONFERENCE

The inspector met with multiple representatives from BAE and the US Army, see list below. The purpose for the investigation was explained to all representatives. The Notification of Inspection, Notice of Confidentiality, and Declaration of Confidential Business Information (CBI) forms were described and signed. It was explained that except for items claimed as CBI, inspection of records was a required component of the inspection; William Shelton was informed that the Receipt for Documents (RFD) form will note that a request for information will be submitted by email. The RFD form was completed and signed. William Shelton was provided a set of the signed EPA forms at the end of the exit interview.

The Scope of this investigation was to determine if PCBs are present in the materials burned under the HAAP TDEC RCRA and TDEC Air Pollution Control Title V permits. The inspection also followed up on the status of previously known PCB electrical equipment.

II. BACKGROUND

A. Date of inspection/time: August 13, 2015/11:40 a.m.

B. Facility name, address, and phone number:

Site B:
Holston Army Ammunition Plant
4509 West Stone Drive
Kingsport, Hawkins, County, TN 37660
423-578-6257

Site A:
Holston Army Ammunition Plant
501 Wilcox Drive
Kingsport, Hawkins, County, TN 37660

C. Parent company name, address, date of acquisition:

D. Inspector(s) present:

Elizabeth Warner, State of Tennessee, EPA TSCA credential #10736
Pamela Franklin, State of Tennessee, EPA TSCA credential #
Stephanie Day, State of Tennessee
John Webb, TDEC DSWM

E. Facility representative(s) present:

Company	Name	Company	Name
BAE	Terry Armstrong	US Army	Scott Shelton
BAE	Michelle Bailey	US Army	Ray Brame
BAE	Amy Crawford	US Army	Gene Faxon
BAE	Paul Bailey	US Army	Joseph Kennedy
BAE	James Ogle	US Army	Michael Vestal

F. Type of facility and operations performed:

HAAP produces RTX explosives for the US Military at Area A and Area B. Area A has two burn Permits from the state of TN the first permit from TDEC APC is a title V permit. The second permit is a TDEC RCRA burn permit. The site also has a permit for a solid waste landfill.

The site has two burn permits from the State of Tennessee one RCRA permit that covers waste explosives and residuals that representative stated had no possible PCBs. There is not a permit limit for the size of the burns. The second permit is a title V permit for potential explosive contaminated material there are two burn piles, two burn cages and two burn pans. The material is visually inspected before it is cleared to burn. Possible contents of burn pile:

APC open burn permit:

- Filters
- Wash cloths
- Explosive waste bags
- Building debris such as:
  - Wood
  - Piping
  - Plastics

RCRA burn pan permit:

- Residual explosives from the manufacturing process.

Demolition of buildings containing explosive manufacturing was being conducted on site and debris from the buildings was being placed in the burn piles. Asbestos is abated before demolition and burning. Prior to demolition there is no testing of liquid or non-liquid for PCBs

There was no testing for non-traditional PCBs that could have been located within the equipment onsite. The age of the equipment was also unknown though some could be as old as facility.

The waste oil is collected in drums and burned in the burn piles onsite. The waste oil is not tracked by which building or piece of equipment it was located in and the waste oil is not tested for PCBs.

The used oil onsite is collected at a used oil collection point and is recycled using Enterprise Waste Oil out of Knoxville, TN. The used oil consists of oil drained from vehicles onsite. There was an open well head or pipe onsite within 15 feet of the used oil tank. There was no indication where the open pipe lead and the representatives did not know where the open pipe/well head lead to. No testing is conducted on used oil for PCBs.

G. Age and ownership history of site:

Holston Army Ammunition Plant has been operating on the property since 1942. BAE Systems division Ordinance Systems, Inc. has operated the plant for the past 25 years

H. Does the facility currently have or has it ever had PCB/PCB-containing equipment:

The facility currently has electrical equipment containing quantifiable levels of PCB.

III. PCB AUTHORIZED USES

A. Transformers:

PCB Transformers by location

Location	Manufacturer	Serial Number	Notes
Site B/coal Fired Boiler	GE	L495599PMLB	still operational
Site B/coal Fired Boiler	GE	L495603PMLB	No noted out of service date at the time of inspection. A date of 2011 was given within correspondence
Site A/Bldg 8A		7146126	
Site A/Bldg 8A		HOL 35811	No known information seen on walk through. Is added to inventory in 2012 removed no note in further inventory. Inventory number from inventory sheet
Site A/Bldg 11		F962786	Not seen on walk through on 2014 inventory, states re-classified non PCB
Site A/Bldg 12		APLR49861	Not seen on walk through on 10/2/09 inventory
No location	Westinghouse	3164525	Listed on inventory sent in correspondence. PCB – Contaminated 122 ppm/ states re-classified non PCB 2014 inventory

B. Capacitors:

PCB Capacitors by location			
Location	**Manufacturer**	**Serial Number/ ID Number**	**Notes**
Site A/Bldg 20A			SN not seen on inspection capacitor switch gear out of service
Site A/Bldg 7A			SN not seen on inspection capacitor switch gear energized
Site A/Bldg 6A	GE	25071/25072/25073	3 bank
Site A/Bldg 5A	GE	25060/25061/25062/25063	4 Bank
Site A/Bldg 2A	GE	24176/24177/24178/24179	4 Bank
Site A/Bldg 8A		HOL30961	6 capacitor bank Large
Site A/Bldg 201		HOL60835	Not seen on walk through on 10/2/09 inventory. Taken off inventory 2013

C. Other electrical equipment:

No Known PCB Other electrical equipment, no confirmatory analytical data.

D. Heat transfer systems:

There were no known PCB Heat Transfer Systems reported at time of inspection.

E. Hydraulic systems:

No Known PCB Hydraulic systems, no confirmatory analytical data.

IV. STORAGE FOR REUSE:

There were no noted items slated as storage for reuse.

V. STORAGE FOR DISPOSAL:

The PCB storage area did not have an up to date log at time of inspection. The front of the building was marked with the large mark. The cage had correct berm size and was also marked with the large mark.

VI. DISPOSAL & SPILLS:

There have been no reported spills at the location. However waste streams are not tested.

VII. WASTE OIL:

Waste oil is collected from machinery onsite, though there is no tracking from machine to drum. There was no testing of the oil for PCBs. The waste oil that is considered explosive contaminated is burned.

VIII. RECORDKEEPING:

The annual document logs and annual records were not available at the time of inspection. Quarterly inspection logs were received in correspondence for the year 2009 for transformers and capacitors.

There was no documentation given for PCB transformers taken out of service since the last annual document log was completed. There were manifest for three transformers sent for disposal in March of 2009. There was no remove from service date tag on one PCB transformer taken out of service in 2011. The Annual Document Logs received by this office are January 2008-Jun 2009 and also January 2010 to December 2014 logs. The document logs are Attachment VII.

Manifest Tracking #	Removed from Service date	Serial Number	Item Description Manifest	Item Description Certificate of Disposal	Date of Disposal	Method of Disposal	Disposal EPA ID	Disposal Facility
0002196326FLE	6/19/2008	L495613PMLB	Transformer	Oil	6/19/2019	Incineration	GAD980839187	Deer Park, TX
0002196326FLE	3/11/2009	L495622PMLB	Transformer	Misc. Electrical Equipment Greater than 500ppm PCB	6/23/2009	Decommissioned	GAD980839187	PPM Coffeyville KS
0002196326FLE	3/11/2009	L495625PMLB	Transformer	Misc. Electrical Equipment Greater than 500ppm PCB	6/23/2009	Decommissioned	GAD980839187	PPM Coffeyville KS
004472699FLE	8/11/2011	24816695	*no item meets description on manifest*	Capacitor for Incineration	8/30/2011	Incineration	TXD055141378	Deer Park, TX
004800103FLE	2/25/2013	004800103FLE	non DOT regulated material	PCB Liquids For de-chlorination (<500PPM)	3/12/2013	oil Reclamation	GAD980839187	PPM Tucker, GA
004800260FLE			non DOT regulated material	PPMD80T Transformer <50 ppm for reclamation	7/19/2013	Decommissioned	OHD986975399	Twinsburg OH

The record keeping for transformers was not complete as there was a missing PCB contaminated transformer not listed along with a PCB containing transformer no longer in service that had not been moved or disposed of.

IX. FINDINGS AND POTENTIAL NON-COMPLIANCE ISSUES:

Subpart K 40 CFR 761.218 (d) (1)

Generators of PCB waste shall keep a copy of each Certificate of Disposal that they receive from disposers of PCB waste among the records they retain under §761.180(a).

Multiple Certificates of Disposal do not match the disposed items or manifest. See Certificates of disposal in Attachment VI

Subpart D 40CFR 761.50 (a) (1)

(1) No person may open burn PCBs. Combustion of PCBs approved under §761.60 (a) or (e), or otherwise allowed under part 761, is not open burning.

The site is burning possible PCB Bulk material and oil being burned in open pans and burn piles, without providing any analytical data. See Attachment V

Subpart C 40 CFR 761.40(a) (4):

Equipment containing a PCB Transformer or a PCB Large High Voltage Capacitor at the time of manufacture, at the time of distribution in commerce if not already marked, and at the time of removal of the equipment from use if not already marked

The label used was not the Large Mark and was not visible on PCB transformers. The label used was is poor condition. See Attachment III

Subpart B 40 CFR 761.35 (a) (1) :

(a) The owner or operator of a PCB Article may store it for reuse in an area which is not designed, constructed, and operated in compliance with §761.65(b), for no more than 5 years after the date the Article was originally removed from use (e.g., disconnected electrical equipment) or 5 years after August 28, 1998, whichever is later, if the owner or operator complies with the following conditions:

(1) Follows all use requirements at §761.30 and marking requirements at subpart C of this part that are applicable to the PCB Article.

The PCB electrical equipment that was no longer in use did not meet the marking requirements.

Subpart B 40 CFR 761.35 (a) (2):
(2) Maintains a records starting at the time the PCB Article is removed from use or August 28, 1998. The records must indicate:

(i) The date the PCB Article was removed from use or August 28, 1998, if the removal date is not known.

(ii) The projected location and the future use of the PCB Article.

(iii) If applicable, the date the PCB Article is scheduled for repair or servicing

No maintenance records were available for the out of service transformers. The transformer in question was removed from service in 2011. There is no noted removed from service date. The future use of the transformer is not noted. There is no future use information.

Subpart J 40 CFR 761.218 (a)(1)
For each shipment of manifested PCB waste that the owner or operator of a disposal facility accepts by signing the manifest, the owner or operator of the disposal facility shall prepare a Certificate of Disposal for the PCBs and PCB Items disposed of at the facility, which shall include:
The certificate of disposal must contain the identity of the disposal facility, by name, address, and EPA identification number.

The certificate of disposal dated 3/24/09 does not have the EPA ID # of the two disposal facilities listed on the certificate.

Subpart J 40 CFR 761.218 (a)(2)
The identity of the PCB waste affected by the Certificate of Disposal including reference to the manifest number for the shipment.

There is a discrepancy from the manifest on one item the manifest stated that a transformer was disposed of (SN L495613PMLB) the certificate of disposal states material description as oil.

Subpart D 40 CFR 761.60 (a) (1) (A-B)
(1) *Transformers.* (i) PCB Transformers shall be disposed of in accordance with either of the following:
(A) In an incinerator that complies with §761.70; or
(B) In a chemical waste landfill approved under §761.75; provided that all free-flowing liquid is removed from the transformer, the transformer is filled with a solvent, the transformer is allowed to stand for at least 18 continuous hours, and then the solvent is thoroughly removed. Any person disposing of PCB liquids that are removed from the transformer (including the dielectric fluid and all solvents used as a flush), shall do so in an incinerator that complies with §761.70 of this part, or shall decontaminate them in accordance with §761.79. Solvents may include kerosene, xylene, toluene, and other solvents in which PCBs are readily soluble. Any person disposing of these PCB liquids must ensure that the solvent flushing procedure is conducted in accordance with applicable safety and health standards as required by Federal or State regulations.

Disposal method for transformers (SN L495622PMLB/ L495625PMLB) is listed as decommissioned which is not an approved disposal method. Certificate of Disposal dated 7/19/13 for un-manifested Non-PCB transformer sent for Reclamation also has a method of disposal of Decommission.

ATTACHMENT I
EPA INSPECTION FORMS

US ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

TOXIC SUBSTANCES CONTROL ACT

NOTICE OF INSPECTION

1. INVESTIGATION IDENTIFICATION:			3. FACILITY NAME
DATE 8/13/15	INSPECTION NO. 37-0815-11AAP-02	DAILY SEQ. NO.	Holston Army Ammunition Plant
2. INSPECTOR'S ADDRESS **Toxic Substances Program, TDEC** **William R Snodgrass, TN Tower** **312 Rosa L. Parks Ave, 14th Fl** **Nashville, TN 37243**			4. FACILITY ADDRESS 1509 West Stone Dr Kingsport, TN

For Internal EPA use. Copies may be provided to recipient as acknowledgment of this notice.

REASON FOR INSPECTION

Under the authority of Section 11 of the Toxic Substances Control Act;

☑ For the purpose of inspecting (including taking samples, photographs, statements, and other inspection activities) an establishment, facility, or other premises in which chemical substances or mixtures, articles containing same are manufactured, processed, stored or held before or after their distribution in commerce (including records, files, papers, processes, controls, and facilities) and any conveyances being used to transport chemical substances, mixtures, or articles containing same in connection with their distribution on commerce (including records, files, papers, processes, controls, and facilities) bearing on whether the requirements of the Act are applicable to the chemical substances, mixtures, or articles within, or associated with, such premise or conveyance have been complied with.

☐ In addition, this inspection extends to (check appropriate blocks):

- ☐ A. Financial data
- ☐ B. Sales data
- ☐ C. Pricing data
- ☐ D. Personnel data
- ☐ E. Research data

The nature and extent of inspection of such data specified in A through E above is as follows:

INSPECTOR'S SIGNATURE Elizabeth J Warner		RECIPIENT'S SIGNATURE
NAME Elizabeth Warner		NAME William Shelton
TITLE EC 1	DATE SIGNED 8/13/15	TITLE ENVIRONMENTAL MANAGER

EPA FORM 7740-3 (REVISED JULY 1997) CORE TSCA – PREVIOUS VERSIONS ARE OBSOLETE Recipient's COPY

Retyped for use by the Tennessee Department of Environment and Conservation Division of Solid Waste Management
William R. Snodgrass TN Tower, 312 Rosa L Parks Ave, 14th Floor, Nashville, TN 37243-1535, mark ATTENTION: Toxic Substance Section

US ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

TOXIC SUBSTANCES CONTROL ACT

DECLARATION OF CONFIDENTIAL BUSINESS INFORMATION

1. INVESTIGATION IDENTIFICATION			2. COMPANY NAME
			Holston Army Ammunition Plant
DATE: 3/18/15	INSPECTION NO.: 37-0815-HAAP-2	DAILY SEQ. NO.	

3. INSPECTOR ADDRESS:	4. COMPANY ADDRESS:
Toxic Substances Program, TDEC **William R Snodgrass, TN Tower** **312 Rosa L. Parks Ave, 14th Fl** **Nashville, TN 37243**	4509 West Stone Dr Kingsport, TN

For internal EPA use. Copies of this form may be provided to recipient as acknowledgment of TSCA Confidential documents described below collected in connection with the administration and enforcement of the Toxic Substances Control Act.

INFORMATION DESIGNATED AS CONFIDENTIAL BUSINESS INFORMATION

NO.	DESCRIPTION

INSPECTOR SIGNATURE		CLAIMANT SIGNATURE	
NAME: Pamela R Franklin		NAME	
TITLE: EM3	DATE SIGNED: 3/18/15	TITLE	DATE SIGNED

EPA FORM 7740-2 (REVISED JULY 1996) PREVIOUS VERSIONS ARE OBSOLETE INSPECTORS COPY

Retyped for use by the Tennessee Department of Environment and Conservation Division of Solid Waste Management
William R. Snodgrass TN Tower, 312 Rosa L Parks Ave, 14th Floor, Nashville, TN 37243-1535, mark ATTENTION: Toxic Substance Section

US ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

TOXIC SUBSTANCES CONTROL ACT

TSCA INSPECTION CONFIDENTIALITY NOTICE

1. INVESTIGATION IDENTIFICATION			4. FACILITY NAME
DATE	INSPECTION NO.	DAILY SEQ. NO.	Holston Army Ammunition Plant
8/13/15	3T-USDS-HAAP-02		
2. INSPECTOR'S NAME Elizabeth Warner			5. ADDRESS 4501 West Stone Dr Kingsport, TN
3. INSPECTOR ADDRESS **Toxic Substances Program, TDEC William R Snodgrass, TN Tower 312 Rosa L. Parks Ave, 14th Fl Nashville, TN 37243**			6. NAME OF CHIEF EXECUTIVE OFFICER 7. TITLE

For internal EPA use. Copies may be provided to recipient as acknowledgment of this notice.

TO ASSERT A TSCA CONFIDENTIAL BUSINESS INFORMATION CLAIM

It is possible that EPA will receive public requests for release of the information obtained during the inspection of the facility cited above. Such requests will be handled by EPA in accordance with provisions of the Freedom of Information Act (FOIA), 5 USC 552; EPA regulations issued thereunder, 40 CFR, Part 2; and the Toxic Substances Control Act (TSCA), Section 14. EPA is required to make inspection data available in response to FOIA requests unless the EPA Administrator determines that the data is entitled to confidential treatment, or may be withheld from release under other exceptions of FOIA.

Any or all information collected by EPA during the inspection may be claimed as confidential if it relates to trade secrets, commercial, or financial matters that you consider to be confidential business information (CBI). If you assert a CBI claim, EPA will disclose the information only to the extent, and by means of the procedures set forth in the regulations (cited above) governing EPA's treatment of CBI. Among other things, the regulations require that EPA notify you in advance of publicly disclosing any information claimed as CBI.

A CBI claim may be asserted at any time prior to, during, or after the information is collected. This notice was developed by EPA to assist you in asserting a CBI claim. If it is more convenient for you to assert a CBI claim on your own stationary or by making the individual documents or samples "TSCA confidential business information," it is not necessary for you to use this notice. The inspector will be glad to answer any questions you may have regarding EPA's CBI procedures.

While you may claim any collected information or sample as CBI, such claims are not likely to be upheld if they are challenged unless the information meets the following criteria:

1. Your company has taken measures to protect the confidentiality of the information and it intends to continue to take such measures.
2. The information is not, and has not been, reasonably obtainable without your company's consent by other persons (other than governmental bodies), or by use of legitimate means (other than discovery based on showing of special need in a judicial or quasi-judicial proceeding).
3. The information is not publicly available elsewhere.
4. Disclosure of the information would cause substantial harm to your company's competitive position.

At the completion of the inspection, you will be given a receipt for all documents, samples, and other materials collected. At that time, you may make claims that some or all of the information is CBI.

If you are not authorized by your company to assert a CBI claim, this notice will be sent by certified mail, along with the receipt for documents, samples, and other materials to the Chief Executive Officer of your company within 2 days of this date. The Chief Executive Officer must return a statement specifying any information which should receive CBI treatment.

The statement from the Chief Executive Officer should be addressed to:
USEPA REGION 4
61 Forsyth Street, S.W.
Mail Code: **9T25**
Atlanta, GA 30303-8960 **Attention: Kristin Lippert**
and mailed by registered, return-receipt requested mail within 7 calendar days of receipt of this notice. Claims may be made at any time after the inspection, but the inspection data will not be entered into the TSCA/CBI security system until an official confidentiality claim is made. The data will be handled under EPA's routine security system unless and until a claim is made.

TO BE COMPLETED BY FACILITY OFFICIAL RECEIVING THIS NOTICE
I acknowledge receipt of this notice:

If there is no one on the premise who is authorized to make CBI claims for this facility, a copy of this notice and other inspection materials will be sent to the company's Chief Executive Officer. If there is another official who should also receive this information, please designate below.

SIGNATURE Michelle B.		NAME
NAME Michelle Bailey		TITLE
TLE Contract Manager	DATE SIGNED 13 August 2015	ADDRESS

EPA FORM 7740-4 (Revised July 1997) PREVIOUS VERSIONS ARE OBSOLETE INSPECTORS COPY

Retyped for use by the Tennessee Department of Environment and Conservation Division of Solid Waste Management, William R. Snodgrass TN Tower, 312 Rosa L Parks Ave, 14th Floor, Nashville, TN 37243-1535, mark ATTENTION: Toxic Substance Section

ATTACHMENT II
PCB INSPECTION CHECKLIST

PCB Inspection Checklist

I. OPENING CONFERENCE

A. Present credentials
Notice of Inspection
Inspection Confidentiality Notice

B. State reason for inspection, how to make confidentiality claims, and approximate length of inspection.

II. BACKGROUND

A. Date of inspection Aug 13, 2015

B. Facility name, address and phone number:
HAAP 4509 W Stone DR Kingsport TN

Address of company headquarters, if located elsewhere :

C. Is the company a subsidiary of another? If so get name and address of parent company and date of acquisition.

D. Inspector(s) present: S. Day / P. FRANKLIN / E Warner

E. Facility representative(s) present, include title(s): See attached sign in.

F. Type of facility:
1. Commercial Facility ____
2. Utility ____
3. Industrial Facility ____

- Operations being performed?
- What is manufactured/facility function?
- What process and/or equipment is used?

G. Age and ownership history of site: 1942 US. Army

H. Does the facility currently have or has it ever had PCBs/PCB-containing equipment?
Yes / Yes

I. PCB Activity: Generate ____ Store for reuse ____, Disposal ____ ,
Commercial storage____, Disposal ____, Transporter ____, Other ____.

PCB Items: Articles-contact and non-contact (transformers), Containers – contact w/ PCBs, Article Containers – no contact PCBs, Equipment – contains an Article w/ no contact PCBs

III. PCB AUTHORIZED USES

A. Transformers (§761.30)

Assumption Rules for Transformers - May assume Non-PCB for Transformers < 3 lbs fluid, circuit breakers, reclosers, cable and rectifiers where PCB concentration is unknown

Must assume PCB-contaminated for Mineral Oil Equipment manufactured prior to 7/2/79 where PCB concentration not determined. Must assume Mineral Oil for all pole and pad distribution Transformers manufactured prior to 7/2/79.

May assume Electrical Equipment manufactured after 7/2/79 is Non-PCB.

Must assume PCB-contaminated if the date of mfg of Mineral Oil equipment is unknown. Must assume PCB-Transformer if manufactured prior to 7/2/79 with> 31bs fluid other than mineral oil where PCB concentration not determined or when date or type of fluid is unknown.

1. Are any PCB- Transformers (>500 ppm) or PCB-Contaminated Transformers in use/stored for reuse? NO

2. Do any PCB Transformers pose an exposure risk to food or feed? NO

3. Any higher secondary voltage (> 480 volts) network, lower secondary voltage (<480 volts) network or higher secondary voltage radial PCB Transformers in or near commercial buildings? NO

4. Were PCB-Transformers in use registered with EPA by 12/28/98? Unknown

5. Have any PCB-Contaminated Transformers been discovered to be PCB-Transformers after 12/28/98? NO
- ONSITE OLD TRANS NOT ON INVENTORY

If yes: Were Transformers registered with EPA within 30 days? (A person taking possession of a PCB Transformer after 12/28/98 is NOT required to register or re-register the Transformer).

6. Have PCB-Transformers registration records been maintained? yes

7. Have all PCB Transformers been registered in writing with the building owner if in or near a commercial building?

8. Are combustible materials stored inside a PCB-Transformer enclosure? NO

Within 5 meters of a PCB Transformer enclosure? NO

Within 5 meters of a PCB Transformer?

9. Are Quarterly PCB-Transformer inspections made? yes
Annual inspections may be performed in lieu of Quarterly, IF:

a. Secondary containment of 100 percent of the capacity of the Transformer is provided, or

b. PCB concentration of Transformer is <60,000ppm 90 days after service to reduce the PCB concentration.

10. Have there been any fires involving PCB-Transformers? No

If yes: Date?	
Who responded?	
Did Transformer rupture?	
Was fire reported to the National Response Center?	

11. Do Quarterly PCB-Transformer inspection records include: 0

Transformer Location	
Inspection Date	
Inspectors Name	
Date Leak Discovered	
Location of Leak	
Estimate of PCB Amt released	
Date of Cleanup	
Containment	
Repair	
Description of Cleanup	

(MARKING §761.40 & §761.45)

12. Are PCB-Transformers labeled with 6x6 ML? yes

13. Is all equipment containing a PCB-Transformer marked? yes

14. Are means of access to PCB-Transformer enclosures marked with ML? yes

15. Were any leaking PCB or PCB-Contaminated Transformers observed? did not see

16. Have any Mineral Oil-containing Transformer been tested and found to be >500 ppm PCB? No

B. Capacitors (§761.30(l))
Use conditions: Use of PCB-Large Capacitors after 10/1/88 is prohibited except for: No

1. Restricted Access and Contained Indoor 1nstallation
2. Restricted Access Substations

Small capacitor - <3 lbs of dielectric fluid; if weight is unknown use §761.3 assumption(s)*
Large High Voltage Capacitor - ≥3 lbs of dielectric fluid and operating at ≥2000 volts
Large Low Voltage Capacitor - ≥3lbs dielectric fluid and operating <2000 volts AC or DC
Light ballasts are regulated for commercial sources.
Must assume Capacitor mfg prior to 7/2/79 with no test is PCB.
May assume Capacitor mfg after 7/2/79 is non-PCB.
Must assume Capacitor is PCB if mfg date is unknown.
May assume Capacitor marked non-PCB by mfg is non-PCB.
**May assume Capacitor with total volume < 100 in^3 has < 3 lbs fluid*
**Must assume Capacitor with total volume > 200 in^3 has > 3 lbs fluid.*
**May assume Capacitor with total volume > 100 in^3 but < 200 in^3 is < 3lbs fluid if total weight of Capacitor is < 9lbs.*

l. Are any PCB-Capacitors in use/stored for reuse? If so, how many?

2. Are 50 ppm PCB LHV or LLV Capacitors in use or storage?

3. Are Capacitors marked with ML? (LHVC and LLVC (§761.40(k)(1)) in service need to be marked)

4. Have any Capacitors been removed from service?
If yes: have Capacitors been individually labeled with ML?
NOTE: LLVC (<2000 volts) must be labeled upon removal from service.

5. Are all Capacitors equipped with nameplates specifying the type of dielectric fluid? (Capacitors without nameplates must be assumed to be PCB)

6. Are any Capacitors manufactured after 7/1/78 in use at the facility? If yes, are these Capacitors marked "No PCBs"? yes/NO

7. Were any leaking Capacitors observed during the inspection?

C. Other electrical equipment:

1. Any oil-filled switches, circuit breakers, reclosers, voltage regulators, etc. in use/stored for reuse?

yes see NOTES a. # PCB_____

b. # PCB contaminated_____

2. How was concentration determined? (by test, asked mfr,….) testing

D. Heat transfer systems (Note: found most often in chemical industry): NO

Age	
Purchased new or used?	
Type of fluid	
Capacity	
Operating temperature	
Was it tested, drained and refilled? (not applicable to all systems)	

E. Hydraulic systems: NO

1. Any hot oil-based systems used? If so, provide the following:

Age	
Brand of oil	
Operating temp	
Capacity (gallons)	
Ever contain PCB?	
Ever PCB tested?	
Any water cooling?	
If yes, is the system open or closed?	
If open, where is the water discharged?	
How is the water treated?	
Is the water tested for PCBs?	
Who conducts the tests?	

Note: PCBs are often used in hot hydraulic systems (because of its heat resistance) which in turn find use mainly in the metal-working industries like die casters, iron foundries, forges and metal formers, in the following types of equipment: die cast machines, metal pouring mechanisms of metal melting furnaces, furnace hydraulics (often door opening/closing mechanisms), forge presses, high tension welding machines and flame hardening equipment. PCBs can also be found contaminating the hydraulics of some "cold" (room temp) systems, again usually in the metal-working industries. Some examples are: drills, mills, broaches, chuckers, boring machines, gear machines, grinders, presses, lathes and threaders.

F. Recordkeeping *(Note: Go to Recordkeeping Inspection Sheet, Module VIII.)*

IV. STORAGE FOR REUSE (§761.35) *(NOTE: Persons storing PCB Articles for reuse must follow all use conditions at §761.30 and marking requirements at Subpart C that are applicable to the PCB Articles)*

A. Are PCB Articles stored for reuse in an area that does not comply with §761.65(b)? If yes, continue with checklist items B and C. NA

B. Are records with the following information available for each unit stored in an area that does not comply with §761.65(b)?

Date article was removed from use	
Projected location and future use of article	
If applicable, scheduled repair/servicing date	

C. Have any articles been stored for reuse for more than 5 years?

D. Annual Records *(NOTE: the information in B above, if not recorded on the item or maintained in a separate log, should be maintained in the annual document log. Go to Recordkeeping Inspection Sheet, Module VIII)*

V. STORAGE FOR DISPOSAL (§761.65)

A. Storage for Disposal Unit (SFDU) Requirements (§761.65(b)) (Note: Conditions *for PCB storage may differ for TSCA and RCRA or other alternative SFDUs)*

1. Does it have an adequate roof, walls and floor?

2. Is the floor smooth and non-porous (as defined in §761.3) with continuous 6" (minimum) curbing? *(NOTE: 6" curb not required for RCRA storage areas)*

3. Are any drain valves, floor drains, and expansion joints, sewer lines or other openings that would permit escape of liquid from containment area?

4. Is the containment volume adequate:

(At least 2 times the internal volume of the largest PCB article/container or25 percent of the total internal volume of all PCB articles or containers in storage. For RCRA units, 1 times the internal volume of the largest or 10% of the total internal volume)

5. Is the SFDU above the 100-yr flood water elevation

6. Is the SFDU marked with a 6x6 ML label

B. PCB Storage

1. Are any PCB's/ PCB Items stored within the SFDU If yes: Obtain an itemized inventory.

2. Are items dated when they were taken out of service for disposal?

3. Are items checked every 30 days for leaks?

4. Are leaks cleaned up immediately?

5. Are PCB Transformers, PCB Containers, or PCB Capacitors marked with ML?

6. Are any PCB Items declared "for disposal" stored outside the SFD?

If yes: are the applicable marking, 30 day temporary storage limits, reserve SFD storage capacity, inspection frequency, SPCC plan requirements met.

7. Are stationary tanks being used to store PCB items for disposal? (§761.65(c)(7))
(If yes, go to Waste Oil Inspection Sheet, Module VII)

C. Commercial PCB Storage

1. Are PCBs generated by others stored for disposal at this facility?

2. If yes, answer the following:

Does the facility have a TSCA PCB commercial disposal approval,	
TSCA interim status authorization,	
A RCRA Part B container storage permit,	
Or is the facility a transfer facility storing PCB waste for ≤ 10 days?	

3. If the facility is a TSCA facility, is a copy of the current closure plan, closure cost estimate and financial assurance documentation available for review?

4. If the facility has a commercial storage approval, check storage inventory against maximum capacity limits and waste types approved for storage in written approval.

VI. DISPOSAL & SPILLS *(§761.60* & §761 Subpart G)

A. Ever dispose of any PCBs/Items? If so, what records are maintained: ADLs ____, Manifests ____, Bills of Lading ____, CDs ____

1. Liquids:

a. Quantity (gallons, kg, etc.)	
b. Date(s)	
c. Manifest #(s)	
d. Certificate(s) of Disposal	

2. PCB Articles:

a. Type of equip (transformers, regulators, circuit breakers. Etc.)	
b. Quantity / weight	
c. Date(s)	
d. Manifest #(s) (if no manifest, note who transported and who disposed)	
e. Certificate(s) of Disposal	
f. Decontamination	

3. PCB Containers

a. Type of Container & Contents	
b. Quantity & weight(s)	
c. Date(s)	
d. Manifest #(5) (if no manifest, note who transported and who disposed	
e. Certificate(s) of Disposal	

B. Each PCB disposal manifest since 2/5/90 should contain the following information:

1. EPA ID 1# _____
2. Identity of waste
3. Serial #/other means of ID if no serial ## (not req. for bulk: waste)_____
4. (Earliest) date out of service for disposal_____
5. Weight in kg. for each Item disposed_____
6. Note transporter and/or designated disposer_____

Note: disposal manifests and Certificates of Destruction are collectively called 'annual records', and the requirement to keep them didn't begin until disposals made on or after 2/5/90; therefore. If there have been any disposals since 2/5/90, do they have the required manifests and Certificates of Destruction?

C. Ever have any PCB spills? If so, provide the following information: notes/dates

Source	
When	
Quantity of PCB involved	
Cleaned up per §761 Subpart G?	
When	
By whom	
How debris disposed*	
Clean-up report prepared?	
Post clean-up test results OK?'	

D. Ever have any fires involving PCBs/Items? If so, when, quantity, cleanup details:

VII. WASTE OIL

Are waste oils generated, used, or stored at the facility?	
What is the source of the waste oils?	
Are waste oils tested for PCBs?	
Indicate which of the following classes of oils area generated, used or stored:	
Waste oil containing 2 - 49 ppm PCBs	
Waste oil containing 50 - 499 ppm PCBs	
Waste oil containing> 500 ppm PCBs	
Are waste oils picked up by a recycler? List name of recycler (s).	
Are waste oils burned at the facility?	
If yes, has facility notified EPA-RCRA as a used oil burner?	
Is burner unit a "qualified incinerator" as defined under §761.3? Type of burner?	
Have any PCB-contaminated waste oils (50-500 ppm) been shipped to a commercial storage/disposal facility?	
Have any PCB-contaminated waste oils (50-500 ppm) been sold for fuel or burned in a high efficiency boiler?	
Are bulk storage tanks used for waste oils containing <50 ppm PCB?	
Is an SPCC plan available for < 50 ppm PCB bulk storage tanks?	
Are bulk storage tanks labeled? (These tanks must labeled if the PCB concentration is unknown or >50 ppm.)	
Are in-out records (date amount) available for bulk storage tanks? §761.65(c)(8)	
Have PCB fluids (>500 ppm) ever been added to bulk storage tanks?	
Have PCB-contaminated fluids (50-500 ppm) ever been added to <5O ppm PCB bulk storage tanks?	

see waste oil notes

VIII. RECORDKEEPING §761.180

Annual Document Logs should constitute single documents which include all of the required elements identified in §761.180(a). Annual Records constitute all signed manifests and all Certificates o/Disposal received during the calendar year plus all records of inspection and cleanup performed in accordance with 761. 65 (c)(5) for the year. Annual Reports are required to be submitted by a commercial storer only by 7/15 and based on ADL & AR Records

Are Annual Document Logs (ADL) and Annual Records (AR) available?	
Are ADL on calendar year basis? (§761.180(a) -1989 must cover 1/1/89 – 2/5/90. 1990 must cover 2/6/90 – 12/31/90)	
Are PCB-Transformers removed from service and PCB Articles stored at the facility itemized in ADL?	
Is the Total Weight (kg) of PCB's contained in these transformers shown?	
Date removed from service	
Date placed into transport for disposal	
Is the number of PCB Transformers and the Total Weight (kg) of PCB's remaining in service at calendar year end	
Are PCB Voltage Regulators recorded as PCB-Transformers	
Are LHV/LL V PCB-Capacitors removed from service itemized	
Date removed from service	
Date placed into transport for disposal	
Is the number of PCB LHV/LLV Capacitors remaining in service at calendar year end shown	
Is the number of PCB-Containers in the SFDU area shown	
Is the Weight (kg) of these PCBs also shown	
Are the container contents identified	
Are PCB-Items in containers listed	
Date placed into storage	
Date placed into transport for disposal	
Are PCB-Items distributed in commerce listed	
Name, address, and phone number of receiving facility shown	
Date of transfer shown	

Serial number or internal ID number shown	
Are names/locations of disposal / storage facilities for PCB shipments shown	
Are ADL kept for 3 years	
Does ADL list the unique manifest number for all shipments during the calendar year? (§761.180)(a)(2)(ii))	
Do ADLs list total number of PCB Containers and the Total Weight in kg of the contents of PCB Containers	

Holston Army Ammunition Plant Notes

Location: Holston Army Ammunition Plant (HSAAP)

4509 W Stone Drive

Kingsport, TN 37660

Date: August 13, 2015

Personnel Involved: See sign-in sheet

Notes – Opening Conference

- Round-table introductions, discussion about purpose of inspection and signing of EPA forms
- Request for updated inventory list
- 1hr break for lunch
- Permitting – 2 permits for facility
  1. RCRA – pan burns for explosives and production(?) residuals
  2. Title 5 – explosives-contaminated equipment (e.g. PPE, not machinery), demolition debris, cloths (e.g. washcloths), explosives wastes bags. Primary constituents of burn pile are packaging, pipe, and PPE. These are done in the form of burn piles, approximately 4x/year.
- HSAAP personnel stated that there was no possibility of PCB contamination in RCRA burn pans, but potentially in the Title 5 burn piles due to the presence of demolition debris, although motors, etc. are decontaminated before being sent to the burn pile.
- Waste tickets are generated for each burn that list what's sent to the burn pile, but may not be sufficiently detailed.
- Equipment of concern is changed out (regularly? When malfunctioning?) decontaminated for reuse/rebuilding/storage (?) notes unclear about final destination for decontaminated equipment
- Personnel stated that air monitoring was not required by their two permits.

Misc.

- Asbestos removal is performed prior to demolition
- Control unites/panels are separate from the process manufacturing areas
- Some hydraulics/oil used in the production areas which generate waste oil. These were stated to be primarily motor oil and thus should not be contaminated with PCBs.
- HSAAP is starting a 12 month waste characterization study to quantify the amount of wastes in the buildings to be demolished. These buildings have been cleaned with respect to explosives residues only and then mothballed.
- Light ballasts are collected then sent off. The process by which HSAAP determines which ballasts are considered PCB contaminated and where they are sent was not noted.
- On-site landfilling is available.
- Recent inspections include December 12, 2014 (air) and end of July 2015 (hazardous waste).

- The HSAAP site may be given back/sold to Eastman Chemical Company; if so, the Army would make a determination on the handling of PCB items.
- Personnel noted that no ballasts in the light fixtures in the explosives manufacturing buildings – the explosive-proof fixtures/lighting contain no ballasts
- Scrap metal from demolished buildings is handled by Thompson Metal for the site.

Transformers/electrical equipment

- All/most have been retrofilled and are considered PCB contaminated
- Known areas of PCBs from last inspection
    - Bldg 200 (steam plant) – 2 present, supposedly uncharged, but at least one was live
    - Pump Room – determined to have no PCBs present
    - Bldg 122 – PCB storage area
- Bldg 200 (steam plant)
    - It was stated that the one of the transformers present were disconnected
        - Email dated August 18, 2015 stated that transformer #1 (SNL495603PMLB) was disconnected potentially in 2011 – last service dates to around January 31, 2011. No determination on fate made yet.
    - Transformer 1 – SN L495599PMLE, temp 20°C
    - Electrostatic precipitators are present to reduce danger at steam plant
- There is an inventory of all of the pad mounted transformers and one containing most of the pole mounted ones containing in their GIS database.
- Potentially an issue with small capacitors at the waste water treatment plant (there is a letter that HSAAP has that explains further. A copy of this document was requested)

Burn Pile

- Primary constituents were wood, metal, piping and plastics. Piping (utilities) had been segregated at the time due to concern about lead based paint (LBP) from the production line.
- Pile heated to 1200 degrees for 6 hours to decompose explosives; water coming off of the pile goes to the on-site waste water treatment plant.
- Waste tickets generated for the burn pile doesn't necessarily detail debris amounts, type or original location; its intended use is as an internal safety measure.
- HSAAP is starting a 12 month waste characterization study to quantify the amount of wastes in the buildings to be demolished. These buildings have been cleaned with respect to explosives residues only and then mothballed.
- Light ballasts are collected then sent off. The process by which HSAAP determines which ballasts are considered PCB contaminated and where they are sent was not noted.
- On-site landfilling is available.
- An infrared camera is used to monitor the burn pile temperature to ensure complete decomposition of explosives.

- Burn schedule – 4 burns in 2012 and 2013; 3 burns in 2014; 2 burns to date in 2015.

PCB storage area

- No items in storage area at time of inspection.
- Correctly labeled on front door; no label at rear garage entrance

Waste and Used Oil

- Used oil from the auto shop is recycled using Enterprise (Waste Oil out of Knoxville?)
- Water collects in the used oil storage pit when it drains; the water is tested (for leaks) and then disposed of at the waste water treatment plant.
- Waste oil from equipment (e.g. elevators, lifts, motors) is sent to the burn pile.
- Waste oil is not tracked by which building or piece of equipment it comes from. No note on where the accumulation point is.
-

Close-out conference

- Inspectors requested the following items
    - Inventory of pole and pad-mounted PCB transformers on site
    - Disposal records of the 5-6 steam room transformers that occurred in the past
    - Inspection logs for PCB storage area
    - Records of disposal for light ballasts in all buildings, especially demolished ones
    - Storage for reuse records

Ronnie Wilhoit

From: Ogle, James (US SSA) <James.Ogle@baesystems.com>
Sent: Friday, August 01, 2014 4:21 PM
To: Ronnie Wilhoit
Cc: Shelton, William (US SSA); Armstrong, Terry (US SSA); Crawford, Amy (US SSA); Bailey, Paul (US SSA); Proffitt, Skip (US SSA); Light, Jon (US SSA); Vestal, Michael Mr CIV USA AMC; Quincy Styke
Subject: BAE Systems (OSI) HSAAP (37-0028) confirmation of conditional approval for planned open burning

Mr. Wilhoit,

RE: BAE Systems Ordnance Systems Inc.'s (OSI), operating contractor for Holston Army Ammunition Plant (HSAAP) in Kingsport, Tennessee, confirmation of conditional approval for open burning of the explosive contaminated materials pile (source 37-0028-10) in accordance with Title V Permit Number 558406 Condition E5-2.

This email is being sent to document and confirm that OSI will be conducting open burning of the explosive contaminated materials pile (Source 37-0028-10) during the week of August 4, 2014 through August 8, 2014 provided proper conditions are present to ensure good air dispersion and that all other requirements of Condition E5-2 from Title V permit 558406 are met. If the weather is not favorable, OSI will continue to evaluate the weather for a day with the proper conditions to conduct the burn during the following week. If additional time before the end of August is needed to ensure that conditions are favorable another email will be provided to keep you informed.

As required and discussed during our July 29, 2014 conversation, OSI will conduct the open burning in accordance with the Division of Air Pollution Control (DAPC) Rule 1200-3-4-.04 (1)(k) and Conditions E5-1 through E5-8 of Title V permit 558406. Part of these conditions which we also discussed is to monitor the weather to ensure that appropriate conditions exist and that there is no air stagnation occurring that would potentially impact the dispersion. As stated OSI does monitor this information and will only burn if acceptable pollutant dispersion conditions are present. OSI checks with the EPA Air Now website to ensure that an action day alert has not been issued. As discussed the burn was not conducted in the second quarter since a good ventilation rate could not be calculated during a date available for the burn.

Approval

The optimum day from the dates listed above will be selected based on the forecasted conditions. OSI plans to use the finalized Excel based tool, developed using information provided by a consulting meteorologist from the March 2012 burn, to properly document the burn and to ensure that the intent of Condition E5-2 has been met. The forecasted weather conditions and the completed Excel tool documents will be maintained and made available during inspection. We understand the verbal approval of these dates were given only as long as a method is used to ensure the selected burn date is conducive for adequate air dispersion to meet the permit condition.

Background

All explosive contaminated materials must be disposed of in accordance with the requirements of DOD 6055.09 STD: DOD Ammunition and Explosives Safety Standards. Currently, no approved safe alternative to burning can be utilized to meet the desired level of decontamination for safe handling of the material. In accordance with our standard practice and Condition E5-1, we will light the pile between 0830-0900 hours unless low surface winds negatively affect the air dispersion, in which case a later start time will be selected.

If there are any concerns with the proposed burn schedule or further notification needs to be made to the Johnson City Environmental Field Office please contact me by phone at (423) 578-6231 or by email at james.ogle@baesystems.com. If you or others are interested in attending the scheduled burn just let me know.

Thank you in advance for your discussion and for your conditional verbal approval,

James E. Ogle
Environmental Affairs Specialist- Air
BAE Systems Ordnance Systems Inc.
Holston Army Ammunition Plant
Phone: 423-578-6231
Cell: 423-863-5102
james.ogle@baesystems.com

CSWAB

CITIZENS FOR SAFE WATER AROUND BADGER
E12629 Weigand's Bay South - Merrimac, WI 53561
Telephone (608) 643-3124
Email: info@cswab.org
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www.facebook.com/cswab.org

July 20, 2015

Ken Feely, Regional PCB Coordination/Cleanups
USEPA Region 4
61 Forsyth Street, S.W.
Mail Code: 9T25
Atlanta, GA 30303-8960
Phone 404-562-8512
Feely.ken@Epa.gov

SENT BY ELECTRONIC MAIL

RE: Request for EPA Assistance in Assuring Compliance with TSCA Regulations in the Treatment of Explosives-Contaminated Wastes at the Holston Army Ammunition Plant, Tennessee

Dear Mr. Feely:

As the regulatory agency responsible for enforcing Toxic Substances Control Act (TSCA) regulations, we are requesting EPA's assistance in assuring that open air burning and thermal treatment (including heating) of explosives-contaminated wastes at Holston Army Ammunition Plant are in compliance with these regulations. PCBs (polychlorinated biphenyls) are the only chemical class specifically named in TSCA because Congress believed that the chemical and toxicological properties of PCBs posed a significant risk to public health and the environment.[1] TSCA also provides for the regulation of asbestos. EPA's immediate attention is requested as multiple sources at the site are currently active.

Human exposure to PCBs is a concern because of the wide range of adverse health effects including skin irritation, reproductive and developmental effects, immunologic effects, liver damage, and cancer. The developing fetus, infants, and children are the population groups most vulnerable to exposure. Exposure may impede the development of their brains, reproductive, immune, and endocrine systems. Emissions from open air burning may be expected to cause an increase in respiratory symptoms for individuals with asthma or other sensitive populations such as children or the elderly.[2]

[1] U.S. Environmental Protection Agency, TSCA Enforcement Program, accessed online July 7, 2015 at http://www.epa.gov/region1/enforcement/tsca/

[2] U.S. EPA, Region 5, *Comments on the Analysis, Preliminary Determination and Draft Plan on the Explosive Decontamination and Demolition at Badger Army Ammunition Plant (BAAAP) in Wisconsin*, September 22, 2003.

EPA has affirmed that dioxins (i.e., chlorinated dioxins and chlorinated furans) could be a byproduct from combustion of the PCBs found in buildings and demolition debris. In addition, polychlorinated dibenzofurans could also be formed and may be the predominant form.[3]

Because PCBs and dioxins are actually mixtures of semivolatile organic compounds with congeners that have a range of volatilities, PCBs and dioxins emitted to air will distribute between the vapor phase and the particulate phase (by adsorption onto particles). The vapor phase PCBs and dioxins are subject to direct uptake by the leafy parts of grass and crops; and the particulate matter can deposit onto crops and soil.[4]

Also, vapor phase and particulate PCBs and dioxins can diffuse into water bodies, deposit directly onto water bodies, and enter waterbodies via soil erosion and runoff. Both PCBs and dioxins are persistent in the environment and do not readily degrade. PCBs can travel long distances in the air (>10 miles) and deposit in areas far from where they were released.

In addition to direct exposure through inhalation, indirect pathways are possible and associated risks from these pathways could be higher.[5] Examples of indirect pathways include uptake of PCBs and dioxins into edible crops and pasture grass, human consumption of edible crops, consumption of pasture grass by beef and dairy cattle and other livestock followed by human consumption of the livestock and milk, incidental soil ingestion and dermal contact with PCBs and dioxins in soil, uptake and bioaccumulation of PCBs by fish in waterbodies, and human consumption of fish.[6]

Holston Army Ammunition Plant

The open burning area for waste explosives and explosives-contaminated material at Holston Army Ammunition Plant is located approximately 0.85 miles from the closest facility boundary and approximately 1.5 miles from the closest resident, according to BAE Systems Ordnance Systems Inc. (OSI) – the operating contractor for Holston Army Ammunition Plant. The base is located at the headwaters of the Holston River at Kingsport, Tennessee.

In December 2011, officials with the Tennessee Division of Air Pollution Control reported observing ground level smoke from Holston lingering in the general area, impacting local air quality.[7] On multiple occasions, community members have reported and photographed ground level smoke in neighboring residential areas that coincides with open burning at Holston. These observations indicate that residents are at risk for exposure to emissions from open air burning. It is also reasonable to expect that populations in closer proximity to the various source areas at Holston, such as onsite workers and other

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[3] U.S. EPA, Region 5, *Comments on the Analysis, Preliminary Determination and Draft Plan on the Explosive Decontamination and Demolition at Badger Army Ammunition Plant (BAAAP) in Wisconsin*, September 22, 2003.
[4] U.S. EPA, Region 5, *Comments on the Analysis, Preliminary Determination and Draft Plan on the Explosive Decontamination and Demolition at Badger Army Ammunition Plant (BAAAP) in Wisconsin*, September 22, 2003.
[5] U.S. EPA, Region 5, *Comments on the Analysis, Preliminary Determination and Draft Plan on the Explosive Decontamination and Demolition at Badger Army Ammunition Plant (BAAAP) in Wisconsin*, September 22, 2003.
[6] U.S. EPA, Region 5, *Comments on the Analysis, Preliminary Determination and Draft Plan on the Explosive Decontamination and Demolition at Badger Army Ammunition Plant (BAAAP) in Wisconsin*, September 22, 2003.
[7] Tennessee Department of Environment and Conservation, Tennessee Division of Air Pollution Control (DAPC), online database accessed July 7, 2015 at http://environment-online.state.tn.us:8080/pls/enf_reports/f?p=19031:34251:7106768381034::NO:34251:P34251_ROW_ID:23734

personnel, are at increased risk for exposure to the uncontrolled release of pollutants from open air burning and thermal treatment activities.

There are three main types of wastes that are burned at Holston, according to OSI.[8] The first is bulk raw explosives that have become contaminated through contact with the manufacturing floor or out-of-spec product unsuitable for use or reprocessing. This waste is burned normally each week in open burn pans.

The second type of waste consists of explosives-contaminated small articles such as plastic bags, paper towels, filters, personal protective equipment, and dewatering filter socks. This material is placed in a steel cage and is generally burned once a week even though it is permitted daily. [9]

The third type of waste is large articles that may be contaminated with explosives and includes **various materials, piping from buildings, process vessels, building demolition material including concrete**, and possibly **soil** surrounding these areas. This material is placed in large piles at the burning ground. [10]

Since many of the materials that are required to be thermally decontaminated are not combustible, large amounts of clean wood are used along with small quantities of kerosene or diesel to facilitate the burning of pile material. [11]

Over the past several years OSI and the Army have been working on removing inoperable and decommissioned **equipment and structures** from the site. This has been a multi-year project and is approximately 50% complete, OSI has reported. The estimated completion date for the second phase of the demolition projects is in approximately three years.

The Holston Army Ammunition Plant is the major supplier of explosive materials – primarily RDX- and HMX-based products – to the U.S. Department of Defense, according to OSI. The EMCW (Energetic Material Contaminated Waste) generated is primarily composed of paper, plastic bags, pallets, boxes, liners, piping, and other items potentially contaminated with EM. In the past, EMCW disposal accounted for 92 percent all material disposed.[12] Flashing has been conducted outside the open burning grounds in decontamination ovens or in one of the EMCW piles.

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[8] BAE Systems Ordnance Systems Inc., Reviewed by HSAAP Staff, Correspondence to Tennessee Department of Environment and Conservation, Division of Air Pollution, Subject: BAE Systems Ordnance Systems Inc., Holston Army Ammunition Plant, Information Requested by TDEC for Open Burning Ground Sources 37-0028-10 and 37-0028-53, July 13, 2012.

[9] BAE Systems Ordnance Systems Inc., Reviewed by HSAAP Staff, Correspondence to Tennessee Department of Environment and Conservation, Division of Air Pollution, Subject: BAE Systems Ordnance Systems Inc., Holston Army Ammunition Plant, Information Requested by TDEC for Open Burning Ground Sources 37-0028-10 and 37-0028-53, July 13, 2012.

[10] BAE Systems Ordnance Systems Inc., Reviewed by HSAAP Staff, Correspondence to Tennessee Department of Environment and Conservation, Division of Air Pollution, Subject: BAE Systems Ordnance Systems Inc., Holston Army Ammunition Plant, Information Requested by TDEC for Open Burning Ground Sources 37-0028-10 and 37-0028-53, July 13, 2012.

[11] BAE Systems Ordnance Systems Inc., Reviewed by HSAAP Staff, Correspondence to Tennessee Department of Environment and Conservation, Division of Air Pollution, Subject: BAE Systems Ordnance Systems Inc., Holston Army Ammunition Plant, Information Requested by TDEC for Open Burning Ground Sources 37-0028-10 and 37-0028-53, July 13, 2012.

[12] U.S. Army Corps of Engineers, Alternatives for Open Burning/Open Detonation of Energetic Materials, Technical Report 98/104, August 1998, page 22.

Open Air Burning of Munitions-Contaminated Wastes as a Source of PCBs/Dioxin Releases

Beginning in 2000, the Army began pressing for approval to open air burn more than 1,000 excess buildings at Wisconsin's Badger Army Ammunition Plant (Badger) – a proposal that even the military acknowledged was not environmentally friendly.[13] Studies by the U.S. Army Industrial Operations Command at Sunflower Army Ammunition Plant in Kansas confirmed that open burning of explosive-contaminated structures produces toxic emissions including "nitrous oxide, carbon monoxide, asbestos, lead vapors, lead particulates, zinc, polyaromatic hydrocarbons, and dioxins".[14]

The Army study affirmed that during an open burn materials are "changed from a solid form and are released to the atmosphere where they will certainly be deposited over a large area resulting in contamination of soil and surface water".[15] Open air burning of excess structures would pose several potential risks including:

- Potential risks to workers posed by the inhalation of vapors and fugitive particulates during the burning of the building; [16]
- Potential risks to personnel and others who may be exposed to air borne vapors and dust generated during burning; [17]
- Potential risks to both human receptors and environmental receptors from the deposition of air borne particulates; these deposited materials could affect both soil and surface water bodies in the area surrounding the burn site.[18]

In 2002, the Army at Badger first reported that high levels of PCBs had been detected in paint in buildings at concentrations more than 400 times the federal threshold of 50 ppm (parts per million). In 2003, EPA Region 5 received a draft plan and request to burn buildings at Badger as a form of demolition. Open burning of excess structures would not only cause the uncontrolled release of PCBs, it would disperse dangerous levels of dioxins and furans to the environment – toxins that are known to accumulate in the food chain and cause birth defects in humans and animals.

CSWAB maintained that if the EPA approved open burning of regulated levels of PCBs at Badger that it would set a significant national precedent. The regional office agreed and the decision was referred to EPA headquarters in Washington, DC.

During the three years that EPA considered the Army's proposed open burning of PCB-contaminated buildings, CSWAB organized a strong national campaign opposing open burning that garnered support from more than 160 organizations. We traveled to Washington to meet with federal legislators and EPA

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[13] U.S. Army Industrial Operations Command, Plexus Scientific, Risk Analysis and Environmental Stabilization Plan for Excess Personal Property, Sunflower Army Ammunition Plant, Final, 29 July 1996, page 4-3.
[14] Ibid.
[15] U.S. Army Industrial Operations Command, Plexus Scientific, Risk Analysis and Environmental Stabilization Plan for Excess Personal Property, Sunflower Army Ammunition Plant, Final, 29 July 1996, page 5-4.
[16] U.S. Army Industrial Operations Command, Plexus Scientific, Risk Analysis and Environmental Stabilization Plan for Excess Personal Property, Sunflower Army Ammunition Plant, Final, 29 July 1996.
[17] U.S. Army Industrial Operations Command, Plexus Scientific, Risk Analysis and Environmental Stabilization Plan for Excess Personal Property, Sunflower Army Ammunition Plant, Final, 29 July 1996.
[18] U.S. Army Industrial Operations Command, Plexus Scientific, Risk Analysis and Environmental Stabilization Plan for Excess Personal Property, Sunflower Army Ammunition Plant, Final, 29 July 1996.

headquarters, to Chicago to meet EPA officials there, and submitted dozens of Freedom of Information Act requests.

Our members sent in more than 1,400 postcards to the EPA, thousands of emails were sent to legislators, EPA officials, and the Wisconsin Department of Natural Resources (WDNR). National and local media attention – radio, television, and print – raised the visibility of the issue and our campaign. In addition to considerable citizen activism, there was significant local Congressional involvement.[19] Prominent among them were U.S. Senator Russ Feingold, U.S. Senator Herbert Kohl and then-Congresswoman Tammy Baldwin.

With support from community members, we hired an expert on dioxins. We built and strengthened alliances with communities near other bases including the Ravenna Arsenal in Ohio, Indiana Army Ammunition Plant, Sunflower Army Ammunition Plant in Kansas, and others. Community members there helped to organize grassroots support for our shared campaign to protect human health and the environment.

Collectively, these actions prompted officials at Badger to explore non-thermal solutions and the Army successfully gained approval from the U.S. Department of Defense Explosives Safety Board for wet demolition of buildings that had been previously identified by the military as **highly sensitive**. Altogether, more than **1,300** explosives-contaminated buildings that were originally slated for open air burning were successfully decontaminated and demolished at Badger using this non-thermal alternative.

At the same time, the Army at Ohio's Ravenna Army Ammunition Plant abandoned plans to open air burn more than 100 buildings. At Iowa Army Ammunition Plant, the Army used chemical neutralization instead of burning to desensitize contaminated buildings. The Army utilized indirect heat to treat explosives-contaminated buildings (without PCBs) at Twin Cities Army Ammunition Plant in Minnesota.

In 2006, after extensive multi-program discussions, EPA Headquarters confirmed that the burning of buildings with regulated levels of PCBs was prohibited and could not be approved.[20] Ultimately, TSCA PCB issues and local citizen opposition stopped the Army's plans for open air burning.[21]

Thermal Treatment of Munitions-Contaminated Wastes as a Source of PCBs/Dioxin Releases

Thermal treatment of painted non-flammable objects is considered the source of unsafe levels of PCBs in soils at the Badger Army Ammunition Plant in Wisconsin. Following the detection of high levels of PCBs in paint on pipes, flanges, and other metal objects, CSWAB asked state regulators to require environmental testing for PCBs at the site of a former decontamination oven – a facility used to thermally treat metal objects for explosive contamination. During operation, resultant particulates and fumes from the oven were released directly to the open air with no treatment or emissions controls.

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[19] U.S. Environmental Protection Agency, Briefing Paper, Topic: Badger Army Ammunition Plant, Baraboo, Wisconsin, May 10, 2007.
[20] U.S. Environmental Protection Agency, Briefing Paper, Topic: Badger Army Ammunition Plant, Baraboo, Wisconsin, May 10, 2007.
[21] U.S. Environmental Protection Agency, Briefing Paper, Topic: Badger Army Ammunition Plant, Baraboo, Wisconsin, May 10, 2007.

In 2005, testing by the Army detected Aroclor 1254 (a commercial PCB mixture) in adjacent soils at levels as high as 740 *u*g/kg, exceeding the EPA Region 9 Residential Preliminary Remedial Goal (PRG) of 220 *u*g/kg and "right at" the EPA Region 9 Industrial PRG of 740 *u*g/kg.

The WDNR has confirmed that temperatures in Badger's decontamination oven were sufficient to volatize PCBs and other contaminants. In correspondence to CSWAB, the WDNR wrote: "The primary PCB Aroclor used in paint was 1254 ... under heating at 450 degrees Fahrenheit it is likely that the Aroclor 1254 did volatize out of the paint." [22]

In the past, paint manufacturers used from 5 to 12 percent PCBs in paints as a plasticizer. According to the Washington State Department of Ecology, lead, mercury, cadmium, and chromium were commonly used in paint as pigments and preservatives and are found in paint on older buildings. Arsenic was used as a pigment, a wood preservative, and as an anti-fouling ingredient. Barium was used as a pigment and a corrosion inhibitor. Latex paint produced before 1992 may contain mercury which was added as a fungicide.

Accordingly, analysis of paint on structures, pipes and other equipment at Badger Army Ammunition Plant detected elevated levels of arsenic, barium, cadmium, chromium, lead, mercury, silver and PCBs.[23] (A table with these test results is attached.)

If paint is found to contain asbestos, disposal could be subject to the asbestos NESHAP (National Emissions Standards for Hazardous Air Pollutants) regulations.[24] Regulators held that if 1% asbestos concentration was found to be entering the decontamination oven at Badger that asbestos abatement would be required, especially as heating can cause flaking of the paint with the potential for release of asbestos into the air.[25]

In addition to paint, PCBs were also used in other building materials such as mastics, sealants, adhesives, and specialty coatings. PCBs were a common additive to caulk because of their water and chemical resistance, durability, and elasticity. Caulk containing PCBs was used in some buildings, including schools, primarily between 1950 and 1980.

Other significant potential sources of dioxins emissions include combustion of wood, plastics, and other building components. In some instances "several tons of wood" are burned to treat a very small amount of waste at Holston, according to officials with the Tennessee Division of Air Pollution Control.

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[22] Wisconsin Department of Natural Resources letter to Laura Olah, Executive Director, Citizens for Safe Water Around Badger, Subject: Decon Oven at the Badger Army Ammunition Plant, July 25, 2003.

[23] U.S. Army, Badger Army Ammunition Plant, Paint Analysis Data, table obtained from U.S. EPA Region V via FOIA request in 2009.

[24] U.S. Environmental Protection Agency, *EPA Comments on the Tests of PCB Releases During Burning Activities At Ravenna Army Ammunition Plant – Draft Phase 1 Test Plan*, September 28, 2005.

[25] U.S. EPA/Wisconsin DNR, Badger WAAP Meeting Minutes, June 4, 2008. Document obtained through CSWAB FOIA request to EPA Region 5.

Asbestos

As noted above, concrete and building demolition materials are specifically identified as thermally treated wastes at Holston by the operating contractor. Asbestos was historically added to a variety of building materials and is found in concrete and concrete-like products. In addition to asbestos in the concrete itself, asbestos can be present in materials used to coat the asbestos such as paints and asphalt type coatings. Some caulks, used to seal seams or joints, contain asbestos.

There can also be asbestos concrete pipes or transite siding (a fireproof composite material made of asbestos and cement), and cement ducts embedded in the concrete. Cement-like products used to patch or fill concrete and brick may contain asbestos. Literally hundreds of cement-based products used for insulation, masonry, stucco, finishing, roads, and other applications contain asbestos. In other words, even if the concrete does not contain asbestos that does not mean that there are not other asbestos containing products that may need to be addressed.

Hubbellite is the brand name for a poured seamless floor that entered the market in the 1940s and is an example of applied flooring that may contain asbestos. **Hubbellite applied to concrete floors at Wisconsin's Badger Army Ammunition Plant contained approximately 10 percent chrysotile or "white asbestos".** Hubbellite is composed of a mixture of cement, limestone, copper and magnesium compounds, and proprietary additives. According to the manufacturer, Hubbellite flooring is fire resistant, chemical resistant (including solvents), non-sparking, and static-disseminating. [26]

In 1998, the EPA issued a memo alerting industry and labor organizations of the potential for asbestos in "soft" concrete in the roofs of buildings. An inspection of a roof repair project on a government building revealed that the concrete material used for forming the roof surface in 1934 contained a high concentration of asbestos. Analysis of the concrete revealed it had an asbestos content of between two and 10% by weight.

Military Formulation of Super Powerhouse insulation cement (produced from 1957 to 1971) contained 5% chrysotile asbestos and was developed to conform to government specification. This product was manufactured and sold exclusively for U.S. government military installations. (The commercial formulation without asbestos continued in production.) Both products were dry, mixtures containing spun mineral-wool, hydraulic setting binders, clays and other ingredients. Its use in or on concrete is not known.

Questions:

- Are all items and wastes subjected to open burning, thermal treatment or heating (as in a decontamination oven) at Holston Army Ammunition Plant **tested** for PCBs, asbestos and other TSCA-regulated substances? How is this documented and where can the public access this information and corresponding data?
- Is it possible that items and wastes containing regulated levels of PCBs, asbestos or other TSCA-regulated substances were subjected to open air burning, thermal treatment or or heating (as in a decontamination oven) at Holston in the ***past***? How has this been addressed and where can the public access this information and corresponding data?

[26] Citizens for Safe Water Around Badger, *Asbestos in Concrete at U.S. Military Bases*, June 6, 2005. Accessed online at http://cswab.org/asbestos-in-concrete-at-u-s-military-bases/.

Recommendations:

- If comprehensive analysis for TSCA-regulated substances has not and is not being conducted, all open burning, thermal treatment and heating (as in a decontamination oven) of items and wastes at Holston should be **immediately** suspended until the Army can demonstrate full compliance with all applicable federal regulations.
- Consistent with EPA's Environmental Justice policies, the Agency should take active steps to promote community outreach and engagement. This should include regular public forums that provide community members with the opportunity to make recommendations, seek clarification, express concerns, and have their questions answered.

Sincerely,

Laura Olah

Laura Olah, Executive Director

Below: Photographs (6)

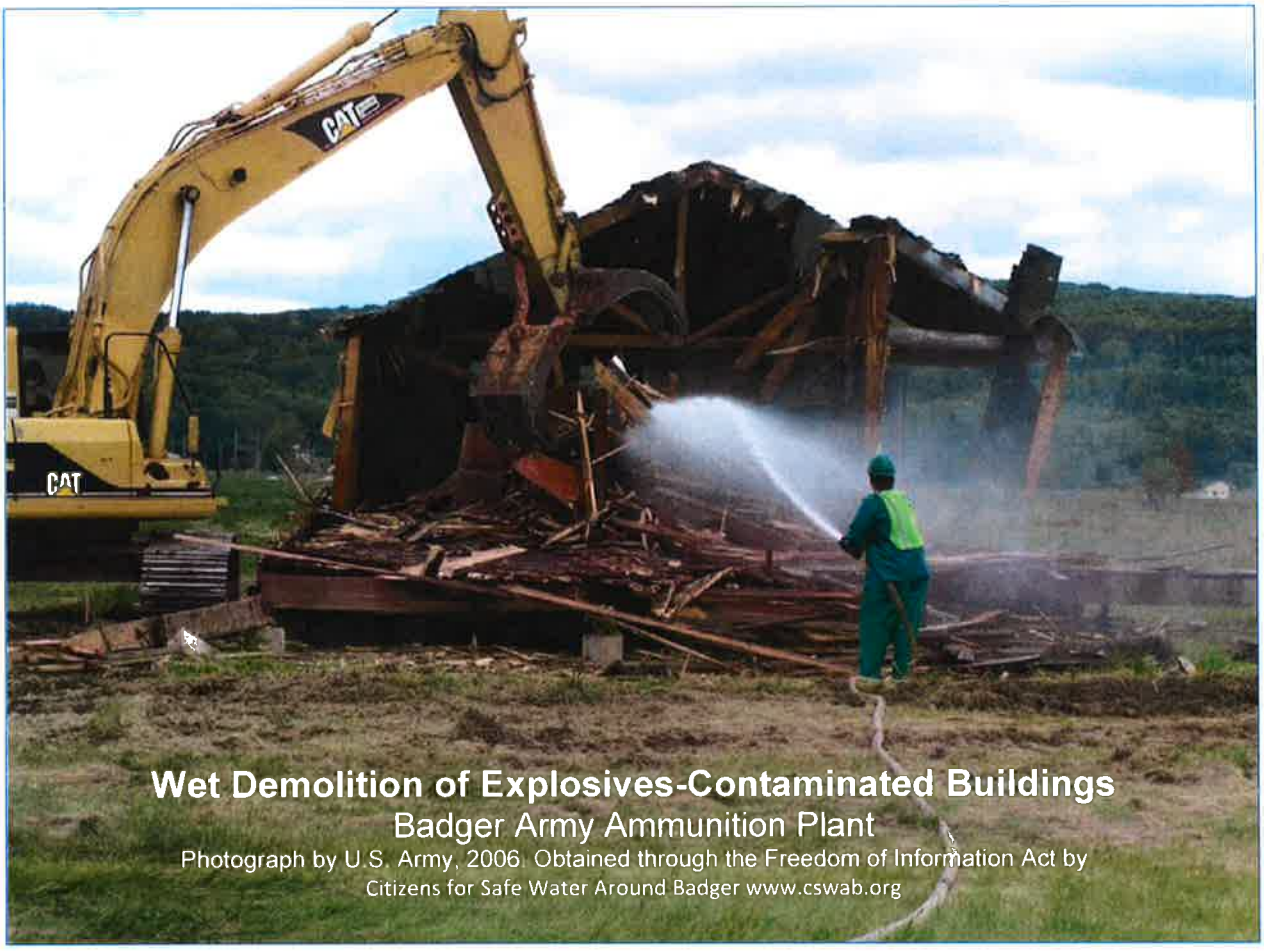
Attached as .pdf files:

- Paint analysis data for PCBs and other parameters at Badger Army Ammunition Plant
- Defense Environment Alert, *EPA Rejects DOD Calls for Allow Open-Burning of PCB-Coated Materials,* August 29, 2006
- Record-Courier, *Burn at Ravenna Arsenal Not Likely - EPA Rejects Plan to Dispose of Buildings,* September 2, 2006

CC w/attachments:

Gina McCarthy, EPA Administrator
Cynthia Giles, Assistant Administrator, EPA Office of Enforcement and Compliance Assurance
Scott Gordon, U.S. EPA Federal Facilities Program, Region 4
U.S. Senator Lamar Alexander
U.S. Senator Bob Corker
U.S. Congressman Phil Roe MD
Governor Bill Haslam
Lt. Governor Ron Ramsey
State Representative Bud Hulsey
State Representative Jon Lundberg
Quincy Styke, Tennessee Department of Environment and Conservation
John C. Webb, Tennessee Department of Environment and Conservation
Ron Wilhoit, Tennessee Department of Environment and Conservation
Renée Victoria Hoyos, Tennessee Clean Water Network
Jane Williams, California Communities Against Toxics
Mark & Connie Toohey

Photographs of smoke affecting residential areas near Holston AAP, December 2011 and March 2013



Wet Demolition of Explosives-Contaminated Buildings

Badger Army Ammunition Plant

Photograph by U.S. Army, 2006. Obtained through the Freedom of Information Act by Citizens for Safe Water Around Badger www.cswab.org

ATTACHMENT III
SITE PHOTOS

Photo Album

by BG35022

Burn Pile East Side

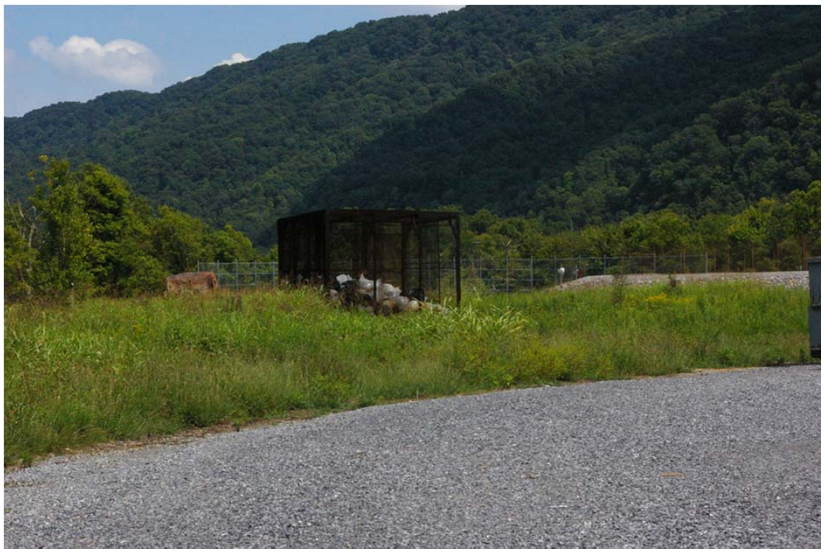
Burn Pile possible lead based painted pipe

Burn Pile possible lead based painted pipe

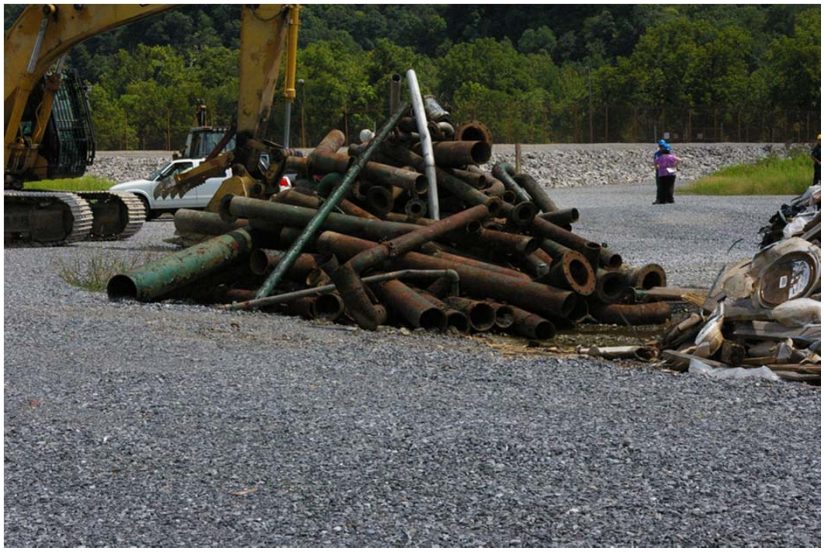
Burn Pile South Side

Burn Pile West Side

Burn Pile North Side



Burn Cage



Burn Pile close up Northside lead based paint pipe pile

Burn Pile North Side

Burn Pan

Burn Cage Eat side

Bldg 200 PCB Transformer
L495599PMLB

Bldg 200 PCB Transformer
L495599PMLB

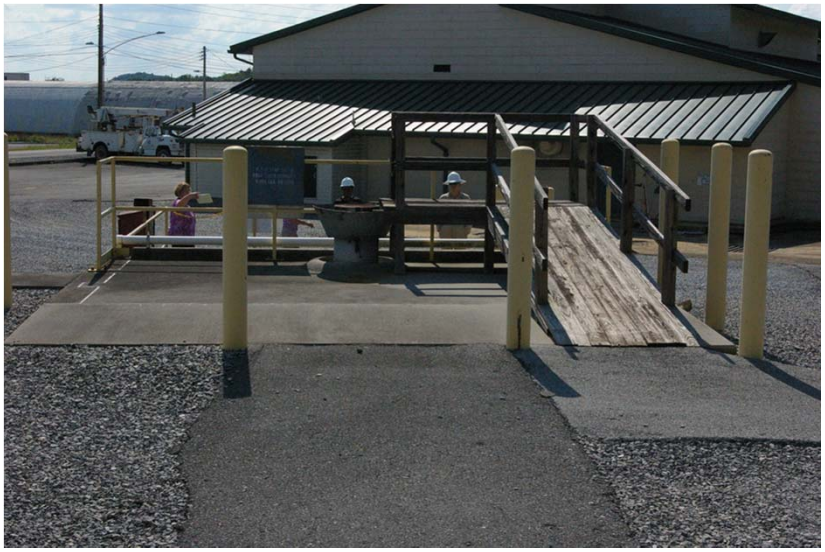
Bldg 200 PCB Transformer
L495603PMLB

Waste oil area

Bldg 122 PCB storage area

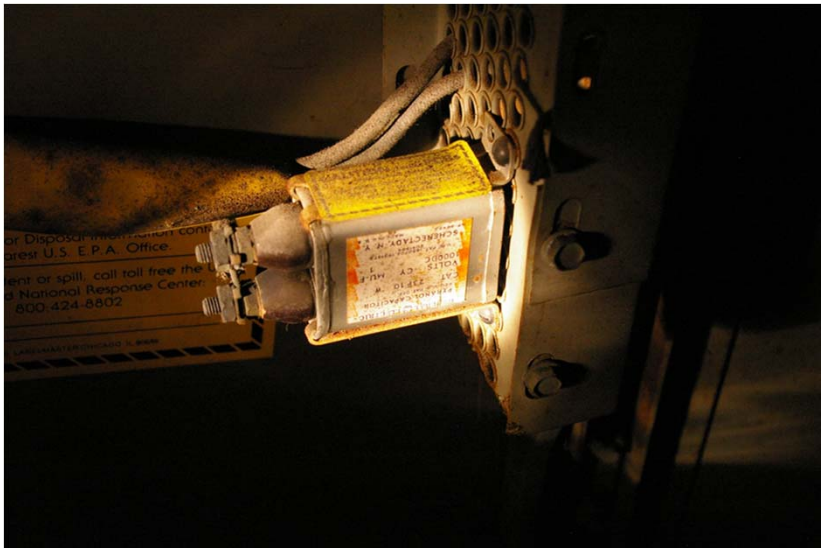
Bldg 122 PCB storage Cage

Used oil area



Used oil area

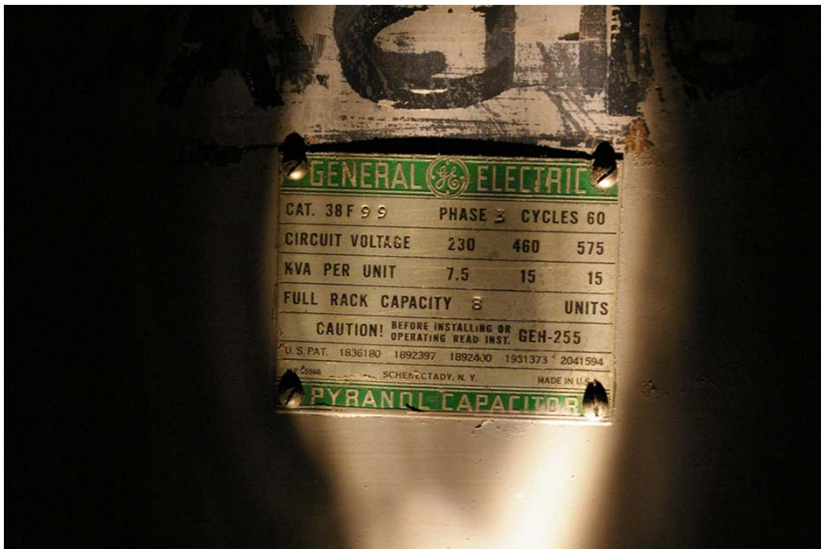
Bldg 20 A PCB Large Mark



Bldg 20 A capacitor inside switch gear

Bldg 7 A Large Mark

Bldg 7 A unknown capacitor bank PCB concentration



Bldg 2 A switch gear

Bldg 8 A Transformer HOL 35811

Bldg 8 A Transformer HOL 35811

Bldg 8 A Transformer unreadable HOL ID number

Bldg 8 A Capacitor 6 Bank HOL 30961

ATTACHMENT IV
RECEIPT OF DOCUMENTS FORM

US ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

RECEIPT FOR DOCUMENTS

1. INVESTIGATION IDENTIFICATION:			2. COMPANY NAME
DATE	INSPECTION NO.	DAILY SEQ. NO.	Holston Army Ammunition Plant
8/13/15	3T-CSIS-HAAP-CR		Contact Person:

3. INSPECTOR ADDRESS	4. COMPANY ADDRESS
Toxic Substances Program, TDEC **William R Snodgrass, TN Tower** **312 Rosa L. Parks Ave, 14th Fl** **Nashville, TN 37243**	4509 West Stone Dr Kingsport, TN

For internal EPA use. Copies of this form may be provided to recipient as acknowledgment of the documents described below collected in connection with the administration and enforcement of the Title X, Section 1038 Disclosure Rule.

RECEIPT OF DOCUMENT(S) DESCRIBED IS HEREBY ACKNOWLEDGED:

NO.	DESCRIPTION
1	Annual Document Logs - yr 2007 / Jan '08 to June 2009 / Jan 10 Dec 10
	Jan 2011 to Dec 2011 Jan 2012 Dec 12 Jan 13 to Dec 13
2.	Tank Probes
3.	Request for documents Inspection Logs PCB Storage Area,
	Storage Tank Release log (last date 8/8/15) / Transformer Inventory
	list 1/9/15

OPTIONAL:
DUPLICATE COPIES: REQUESTED AND PROVIDED ☑ NOT REQUESTED ☐

INSPECTOR SIGNATURE	CLAIMANT SIGNATURE
Elizabeth Warner	William Shelton
NAME Elizabeth Warner	NAME William Shelton
TITLE EC 1 DATE 8/13/15	TITLE Environmental Manager DATE 8/13/15

EPA FORM 7740-1 FOR 1038 *REVISED SEPT 1997) PREVIOUS VERSIONS ARE OBSOLETE

ATTACHMENT V
INSPECTION CORRESPONDENCE RECEIVED
FROM Amy Crawford

Crawford, Amy (US SSA)

From: Foy, Matthew (US SSA)
Sent: Tuesday, July 30, 2013 11:23 AM
To: Bright, Michael (US SSA); Harper, Scott (US SSA); Boggs, Jeffery (US SSA); Alley, Calvin (US SSA); Darnell, Justin (US SSA)
Cc: Crawford, Amy (US SSA)
Subject: Bldg 201 Pump House - Capacitors in basement

Importance: High

All,

See confirmation below. These capacitors DO NOT contain PCB fluids. Hence, any all references to them being treated as such, should be discontinued.

Amy – if you will update environmental's records (PCB plan, SPCC plans (?)), I'll see that our PM is updated to remove these items from the inspection list.

Thanks,

Matt Foy
BAE Systems - Ordnance Systems Inc.
Manager, Electrical & Instrument Services
O: 423.578.6086
E: matthew.foy@baesystems.com

From: ENERGY Parts Only Requests (GE Energy Services) [mailto:energy.partsonlyrequests@ge.com]
Sent: Tuesday, July 30, 2013 11:14 AM
To: Foy, Matthew (US SSA)
Subject: 43F763DA1 Capacitor

Hi Matt,

I spoke with my technical contact in regards to the Capacitor. Based off of the information you supplied me with:

The numbers on the Capacitor:

43F763DA1

1886733

161a8668p10

Specs:

300v dc surge
200mfd
non polar

My technical contact was able to conclude:
This is an electrolytic capacitor, it does not contain pyronol (PCB) fluid

I hope this helps. If you need any more information on this or anything else, come to us at the Parts Group.

Regards,
Michelle

FW: Information requested from Holston Army Ammunition Plant

Thursday, November 12, 2015
9:14 AM

Subject	**FW: Information requested from Holston Army Ammunition Plant**
From	Pamela Franklin
To	Elizabeth Warner; Adrianne White; Stephanie N. Day
Sent	Tuesday, September 01, 2015 4:18 PM
Attachments	 PCB Storage Inspection...

Pamela R Franklin | Environmental Manager
Division of Solid Waste Management
Toxic Substances Program
William R Snodgrass Tennessee Tower
312 Rosa L Parks Ave., 14th Floor
Nashville, Tennessee 37243
Office 615-532-0849
Fax 615-532-0886
Cell 615-306-1829

DSWM's Mission Statement: To protect health and improve environmental quality for all Tennesseans through responsive and effective oversight of waste management activities.

Tell us how we're doing! Please take 5-10 minutes to complete TDEC's Customer Service Survey

From: Crawford, Amy (US) [mailto:amy.crawford@baesystems.com]
Sent: Tuesday, August 18, 2015 2:42 PM
To: Pamela Franklin
Cc: Shelton, William (US); Vestal, Michael Mr CIV USA AMC
Subject: Information requested from Holston Army Ammunition Plant

Pam,
We did not regularly inspect the Building 122 cage area if nothing was stored there until March of 2012

when the electrical group added it to their preventive maintenance work orders. The linemen indicated lights stored in the cage area in the summer of 2013. The electrical department did some checking for me on that. They had stored the lights there in case the ballasts contained PCBs. Once they took them apart, they found 1 ballast that was questionable while the rest did not contain PCBs. The questionable one was taken to the drum we keep at Building 102 for PCB-containing light ballasts which are disposed of with Southeast Recycling in Johnson City.

We believe Transformer L495603PMLB was disconnected in 2011. An actual date could not be determined from Maintenance or Operations other than some time after January 31, 2011 when Boiler #2 was taken off-line for the baghouse project. There are no plans to re-start Electrostatic Precipitator # 2, and it does not appear the transformer could be used for Electrostatic Precipitator #1. We will make plans to dispose of it.

A question came up about the labeling of Building 122. The cage area is the PCB storage area, not the entire building. So, would the requirement be just to label the cage area?

Thank you,

Amy E. Crawford
Environmental Affairs Specialist
BAE Systems Ordnance Systems Inc.
Holston Army Ammunition Plant
4509 West Stone Drive
Kingsport, TN 37660
Phone: 423-578-6417
Cell: 423-782-7871
Fax: 423-578-6329
amy.crawford@baesystems.com

ATTACHMENT VI
MANIFEST AND CERTIFICATES OF DISPOASAL
FROM Amy Crawford

Clean Harbors
1672 East Highland Road
Twinsburg, OH
330-425-3825
Fax 330-487-5784
www.cleanharbors.com

MR. MICHAEL BRIGHT
BAE SYSTEMS ORDINANCE SYSTEMS
4509 WEST STONE DRIVE
KINGSPORT, TN 37660

MR. BRIGHT:

Enclosed you will find signed copies of your shipping documents, which indicates acceptance of your waste at our Clean Harbors PPM facility in Twinsburg, OH.

004800260FLE RECEIVED 06/20/13

In accordance with 40 CFR 264.12(b), Clean Harbors PPM, LLC-Twinsburg Facility has the appropriate state and federal permits to accept, store, and/or treat the waste you shipped to our facility. This letter should be kept on file with your copy of the signed manifest.

We appreciate your business. If you have any questions, please contact me at (330) 425-3825.

Sincerely,

Shantanu S. Pahi

Shantanu S. Pahi

Facility General Manager

Enclosures

Clean Harbors Environmental Services
1875 Forge Street
Tucker, GA 30084
www.cleanharbors.com

March 15, 2013

Paul Bailey
Bae Systems Ordinance Systems
4509 WestStone Drive
Kingsport, TN 37660

RE: Sales Order #: GA5020174

Dear Mr. Bailey:

Enclosed please find a signed copy of your shipping document, which indicates acceptance of your waste at our Clean Harbors PPM facility in Tucker, Georgia.

Shipping Document Number: 004800103FLE

Date Received: 3/11/13

In accordance with 40 CFR 264.12(b), Clean Harbors PPM, LLC-Tucker Facility has the appropriate state and federal permits to accept, store, and/or treat the waste you shipped to our facility. This letter should be kept on file with your copy of the signed manifest.

We appreciate your business. If you have any questions, please contact me at (770) 934-0902 x 6562.

Sincerely,

Carol Ramsay
Compliance Guard

Enclosure(s)

CleanHarbors
ENVIRONMENTAL SERVICES®

March 26, 2009

Attn: Ms. Karin Burnette
BAE Systems Ordinance
4509 West Stone Drive
Kingsport, TN 37660

RE: Job Control #: GA2260919-001

Dear Ms. Burnette:

Enclosed please find a signed copy of your manifest, which indicates acceptance of your material at our Clean Harbors PPM facility in Tucker, Georgia.

Manifest Document Number: 002196326FLE

Date Received: 03/24/09

If you have any questions, please contact me at (770) 934-0902 x 6562.

Sincerely,

Carol Ramsay
Records Administrator

Enclosure: manifest

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number | 2. Page 1 of 1 | 3. Emergency Response Phone | 4. Manifest Tracking Number 002196 26 FLE

GENERATOR

5. Generator's Name and Mailing Address
SAE Systems Ordnance
4509 West Stone Drive, Kingsport, TN 37660
Generator's Phone: 423-578-6000 Karla Burnette

Generator's Site Address (if different than mailing address)
Holston Army Ammunition Plant
4509 West Stone Drive, Kingsport, TN 37660
423-578-6000 Karla Burnette

6. Transporter 1 Company Name
Clean Harbors Environmental Services
U.S. EPA ID Number: MAD039322250

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

8. Designated Facility Name and Site Address
Clean Harbors (PPM) LLC
1600 Pierce Street, Tucker, GA 30084
Facility's Phone: 770-939-0990
U.S. EPA ID Number: GAD980839183

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-DOT regulated Peak (less than one pound)	003	DM	02722	K	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Quote: 764381 GA2260919-001 PO# JAE-031209-06
1. CHTN#
See attached continuation sheet for unique LOT's, weights & out of service dates for units.
Trailer 1038

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

Generator's/Offeror's Printed/Typed Name: Karla M. Burnette | Signature: Karla M Burnette | Month 3 | Day 23 | Year 09

TRANSPORTER INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: MELVIN E. PARRISH | Signature | Month 03 | Day 23 | Year 09
Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

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

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

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Paul J Kayse | Signature | Month 03 | Day 24 | Year 09

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

DESIGNATED FACILITY'S COPY

1094293 - 1744295

CLEAN HARBORS PPM, LLC--- PCB CONTINUATION SHEET

Each Unit Must Be Marked On Sheet With All Corrresponding Information Filled In

THIS PAGE MUST MATCH THE MANIFEST IT ACCOMPANIES

GENERATOR: Holston Army Ammunition Plant/BAE Systems Ordnance Systems Inc. **MANIFEST#** _____

ifest umber	Unit Type	Unique Generator ID Number	Serial Number	Material Description	Out of Service Date	KVA	Transformer Type	LBS	KGS	Full or Empty	PCB Level
	CM	495613	L495613PMLB	T	**6/19/2008**	45	Pad	2000	907	F (82 gal)	>500 ppm
	CM	495622	L495622PMLB	T	3/11/2009	45	Pad	2000	907	F (82 gal)	>500 ppm
	CM	495625	L495625PMLB	T	3/11/2009	45	Pad	2000	907	F (82 gal)	>500 ppm

r TYPES:

:DRUM METAL

DRUM FIBER

:CONTAINER METAL

:CONTAINER WOOD

MATERIAL DESCRIPTION:

A=SWITCH, OCB, etc

B=BUSHING O=OIL

C=CAPACITOR T=TRANSFORMER

D=DEBRIS

TRANSFORMER TYPE:

POLE

PAD

SUBSTATION

** ACR **

LV3898937-002 SC PPW 3/3/2011

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

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	TN5210020421	2	(800) 483-3718	004472699 FLE

GENERATOR

5. Generator's Name and Mailing Address
Bae Systems Ordnance Systems
4509 West Stone Drive
Kingsport, TN 37660
Generator's Phone: (423) 578-8417

Generator's Site Address (if different than mailing address)
SAME

6. Transporter 1 Company Name
Clean Harbors Environmental Services Inc
U.S. EPA ID Number
MAD039322250

7. Transporter 2 Company Name
Robbie D Wood Inc
Clean Harbors Environmental Services Inc.
U.S. EPA ID Number
KYD 067138891
MAD039322250

8. Designated Facility Name and Site Address
Clean Harbors Deer Park, LLC
2027 Independence Parkway South
La Porte, TX 77571
Facility's Phone: (281) 930-2300
U.S. EPA ID Number
TXD055141378

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN1993, WASTE FLAMMABLE LIQUIDS, N.O.S., (1-METHYL-2-PYRROLIDONE, PETROLEUM NAPTHA), 3, PG II (D001), (BAE-02)	001	DF	00220	P	D001 OUTS001H
X	2. UN1993, WASTE FLAMMABLE LIQUIDS, N.O.S., (ANISOLE), 3, PG II, (BAE-02)	001	DF	00040	P	D001 OUTS001H
X	3. RQ, UN1263, WASTE PAINT RELATED MATERIAL, 3, PG III (D001)	001	DM	00450	P	D001 D035 F003 F005 OUTS219H
X	4. UN2810, WASTE TOXIC LIQUIDS, ORGANIC, N.O.S. (CHLOROFORM), 6.1, PG II, (BAE-04)	001	DF	00020	P	D022 U044 OUTS001H

14. Special Handling Instructions and Additional Information
1. LCCRD ERG#126 1X55
2. LCCRD ERG#126 1X16
3. CH917757 ERG#126 1X55
4. LCCRC ERG#153 1X5

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

Generator's/Offeror's Printed/Typed Name: Amy E. Crawford
Signature: Amy E Crawford
Month: 08 Day: 11 Year: 11

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Melvin T. Mowry Jr.
Signature:
Month: 08 Day: 11 Year: 11
Transporter 2 Printed/Typed Name: Roland Gonzalez
Signature:
Month: 08 Day: 12 Year: 11

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

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

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H040 2. H040 3. H040 4. H040

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Jerry Stevens
Signature:
Month: 8 Day: 23 Year: 11

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

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)
Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) LV3688937-002 SC PPW 3/3/2011 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: TN5210020421 | 22. Page: 2 of 2 | 23. Manifest Tracking Number: 004472699FLE

24. Generator's Name: **Bae Systems Ordinance Systems**

25. Transporter 3 Company Name: Clean Harbors ENV. | U.S. EPA ID Number: MAD039322250

26. Transporter _____ Company Name: Clean Harbors | U.S. EPA ID Number: MAD039322250

27a. HM	27b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	5. UN3077. WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES. SOLID. N.O.S.. (LEAD PAINT CHIPS). 9. PG III. (BAE-05)	001	DF	00020	P	D008		
							OUTS001H	
X	6. UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PG III. (OUT OF SERVICE DATE 08-11-2011)	001	DM	~~00240~~ 92	P/K	EB		
							OUTS3191	
	7. NON D.O.T. REGULATED, (WAX EMULSION), (BAE-03)	001	DF	00040	P			
							OUTS0011	

32. Special Handling Instructions and Additional Information

5.LCCNC ERG#171 1X55
6.CAS17782 ERG#171 1X55
7.LCCRN 1X20

TRANSPORTER

33. Transporter 3 Acknowledgement of Receipt of Materials
Printed/Typed Name: LARRY Pope | Signature: L.S Pope | Month 8 | Day 18 | Year 11

34. Transporter _____ Acknowledgement of Receipt of Materials
Printed/Typed Name: SANDY BEALH | Signature: Sandy Bealh | Month 8 | Day 20 | Year 11

DESIGNATED FACILITY

35. Discrepancy
Per Amy Crawford the above Quantity Has been changed 8-24-11 EB

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

5. H040	6. H141	7. H040		

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

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) GA5020174-007 SC PPW 3/3/2011 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	TN5210020421	1	(800) 483-3718	004800103 FLE

GENERATOR

5. Generator's Name and Mailing Address
Bae Systems Ordinance Systems
4509 West Stone Drive
Kingsport, TN 37660
Generator's Phone: (423) 470-1699 Paul Bailey

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: Clean Harbors Environmental Services Inc — U.S. EPA ID Number: MAD039322250

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

8. Designated Facility Name and Site Address
Clean Harbors PPM LLC
1875 Forge Street
Tucker, GA 30084
Facility's Phone: (770) 934-0902
U.S. EPA ID Number: GAD980839187

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON DOT REGULATED MATERIAL. (<1 LB PCB)	01	TT	9180	K	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. ~~[illegible]~~
DH3 ~~[illegible]~~
PPM DH1 EST volume 2200 OSD 2-25-13

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

Generator's/Offeror's Printed/Typed Name: T. Paul Bailey — Signature: T. Paul Bailey — Month 12 Day 25 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Rick Hendry — Signature: [signature] — Month 12 Day 25 Year 13
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

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

1.	2.	3.	4.
H039			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: David P Campbell — Signature: [signature] — Month 1 Day 3 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. 30000890 DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) GA5473763

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
TN5210020A21	1	800-483-3718	004800260 FLE

GENERATOR

5. Generator's Name and Mailing Address
BAE Systems Ordnance Systems
4509 West Stone Drive
Kingsport, TN 37660
Generator's Phone: 423-470-1699 Paul Reiley

Generator's Site Address (if different than mailing address)
SAME

6. Transporter 1 Company Name
Clean Harbors Environmental Services Inc

U.S. EPA ID Number
MAD039322250

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors PPM LLC
1672 East Highland Road, Twinsburg, OH 44087
Facility's Phone: 330-425-3825

U.S. EPA ID Number
OHD986975399

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON DOT REGULATED MATERIAL (<1 LB PCB)	01	TM	1881	K	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. DSOT

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

Generator's/Offeror's Printed/Typed Name: Michael Bright
Signature: Michael Bright
Month 06 Day 19 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Dick Hendrix
Signature:
Month 06 Day 19 Year 13

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

DESIGNATED FACILITY

18. Discrepancy

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

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

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

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

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Amanda Debuski
Signature:
Month 06 Day 20 Year 2013

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

DESIGNATED FACILITY TO GENERATOR

3195981

Clean Harbors PPM LLC
1875 Forge Street
Tucker GA, 30084
GAD980839187
(770) 934-0902

CERTIFICATE OF DISPOSAL

Generator Facility Name:	Bae Systems Ordinance Systems	Sales Order#:	GA2260922
Generator Address:	4509 West Stone Drive	Date Received:	3/24/2009
	Kingsport, TN, 37660		
Generator Contact Name:			

Generator EPA ID:	TN5210020421	Load #:	311959
		Manifest #:	002196326FLE

Original CH ID #	Date Removed From Service	Unit Type	Unique ID/ Serial #	Material Description	Disposal Date	Method of Disposal	Disposal Facility
17914293	6/19/2008	CM	L495613PMLB	OIL	6/19/2009	Incineration	Deer Park, TX Facility
17914294	3/11/2009	CM	L495622PMLB	Misc. Electrical Equipment, Greater Than 500PPM PCB	6/23/2009	Decommisioned	PPM - Coffeyville, KS
17914295	3/11/2009	CM	L495625PMLB	Misc. Electrical Equipment, Greater Than 500PPM PCB	6/23/2009	Decommisioned	PPM - Coffeyville, KS

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 AND 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

Randy A Pryor
Authorized Agent

Tuesday, June 30, 2009
Date

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

CERTIFICATE OF DISPOSAL

Generator Facility Name:	Bae Systems Ordinance Systems	Sales Order#:	LV3698937
Generator Address:	4509 West Stone Drive Kingsport, TN, 37660	Date Received:	8/22/2011
Generator Contact Name:			
Generator EPA ID:	TN5210020421	Load #:	334888
		Manifest #:	004472699FLE

Original CH ID #	Date Removed From Service	Unit Type	Serial # / Customer ID	Material Description	Disposal Date	Method of Disposal	Disposal Facility
24816695	8/11/2011	DM	24816695 /	Capacitor For Incineration	8/30/2011	Incineration	Deer Park, TX Facility

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

Authorized Agent

Thursday, September 08, 2011
Date

Page 1 of 1

Clean Harbors PPM LLC
1875 Forge Street
Tucker GA, 30084
GAD980839187
(770) 934-0902

CERTIFICATE OF DISPOSAL

Generator Facility Name:	Bae Systems Ordinance Systems	Sales Order#:	GA5062006
Generator Address:	4509 West Stone Drive Kingsport, TN, 37660	Date Received:	3/11/2013
Generator Contact Name:			

Generator EPA ID: TN5210020421

Load #:

Manifest #: 004800103FLE

Original CH ID #	Date Removed From Service	Unit Type	Serial # / Customer ID	Material Description	Disposal Date	Method of Disposal	Disposal Facility
30000890	2/25/2013	TT	004800103FLE /	PCB Liquids For Dechlorination (<500PPM)	3/12/2013	Oil Reclamation	PPM - Tucker, GA Facility

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

Michael Golden
Authorized Agent

Tuesday, April 02, 2013
Date

Page 1 of 1

2700 #s 9205 Kgs

Final CD For This Manifest

Clean Harbors PPM LLC
1672 East Highland Road
Twinsburg OH, 44087
OHD986975399
(330) 425-3825

CERTIFICATE OF DISPOSAL

Generator Contact Name:		Sales Order #:	GA5473767
Generator Facility Name:	Bae Systems Ordinance Systems	Date Received:	6/20/2013
Generator Address:	4509 West Stone Drive Kingsport, TN 37660		
Generator EPA ID:	TN5210020421	Manifest #:	004800260FLE

Line #	Profile/Description	Disposal Date	Method of Disposal	Disposal Facility
1	PPMD80T TRANSFORMER <50 ppm FOR RECLAMATION	7/19/2013	Decommission	Twinsburg, OH Facility

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

Name: Paul A. Wells

Title: VP Environmental Applications

Date: Tuesday, July 30, 2013

Page 1 of 1

ATTACHMENT VII
PCB ANNUAL DOCUMENT LOGS
FROM Amy Crawford

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description :** **PCB Quarterly Inspections**

Next Due Date 7/15/2009 **Last Complete** 4/15/2009 **PM Completion Date:** 7/1/09 **Status** Active **Hours**

Due every 3 **mths** **Person Assigned** Burton **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes Per Inspection Report - 1/3/08 - 5-A, 11-A, 12-A - NON PCB
7/28/08 - L495613PMLB - Moved to Bldg #122, PCB Storage, taken off this PM.
8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.
3/11/09 - L495625PMLB & L495622PMLB removed fron Bldg 200 & stored at Bldg 122

Item	Description	Procedure	Equip#	Comp
1	**5-A Transformer PCB (3164568)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N 3164568	✓
2	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	✓
3	**11-A Transformer (F962786)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N F962786	✓
4	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N PLR49861	✓
5	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLE	✓
6	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLE	✓
9	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	✓
10	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	✓
11	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equiptment in use	STF 9030	ID# 0047	✓
12	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	✓
13	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	✓
14	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	✓

PM / Inspection Checklist

15 **Capacitor B201 Basement** STF 9030 HOL 60834 ☑

Check PCB Logo
Check condition of equipment/leak or filming
Check for equipment in use

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description :** PCB Quarterly Inspections

Next Due Date 10/1/2009 **Last Complete** 7/1/2009 **PM Completion Date:** 10/6/09 **Status** Active **Hours** ____

Due every 3 **mths** **Person Assigned** Burton **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes Per Inspection Report - 1/3/08 - 5-A, 11-A, 12-A - NON PCB
7/28/08 - L495613PMLB - Moved to Bldg #122, PCB Storage, taken off this PM.
8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.
3/11/09 - L495625PMLB & L495622PMLB removed fron Bldg 200 & stored at Bldg 122

Item	Description	Procedure	Equip#	Comp
1	**5-A Transformer PCB (3164568)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N 3164568	✓
2	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	✓
3	**11-A Transformer (F962786)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment In use (NON PCB)	STF 9030	S/N F962786	✓
4	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N PLR49861	✓
5	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLE	✓
6	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLE	✓
9	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	✓
10	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	✓
11	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equiptment in use	STF 9030	ID# 0047	✓
12	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	✓
13	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	✓
14	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	✓

PM / Inspection Checklist

15	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60834	☑

BAE SYSTEMS

Ordnance Systems Inc.

Holston Army Ammunition Plant
4509 West Stone Drive
Kingsport, TN 37660-9982

EPA Identification Number: TN 5210020421

PCB Annual Document Log
January 1, 2008 – June 30, 2009

Prepared by: Environmental and Electrical Departments
Submitted by: Environmental Department

BAE SYSTEMS

Ordnance Systems Inc.

PCB Transformer Inspection Example Checklist

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description :** PCB Quarterly Inspections

Next Due Date 10/1/2009 **Last Complete** 7/1/2009 **PM Completion Date:** _____ **Status** Active **Hours** _ _

Due every 3 mths **Person Assigned** _____ **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes Per Inspection Report - 1/3/08 - 5-A, 11-A, 12-A - NON PCB
7/28/08 - L495613PMLB - Moved to Bldg #122, PCB Storage, taken off this PM.
8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.
3/11/09 - L495625PMLB & L495622PMLB removed fron Bldg 200 & stored at Bldg 122

Item	Description	Procedure	Equip#	Comp
1	**5-A Transformer PCB (3184568)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N 3184568	
2	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	
3	**11-A Transformer (P962786)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N P962786	
4	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N PLR49861	
5	**Transformer, Precipitator (L495599PMLB) 2150 LBs** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLB	
6	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLB	
9	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	
10	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	
11	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	
12	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	
13	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	
14	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	

Monday, July 27, 2009 Issue a work order if more than 30 minutes of maintenance repair time is required as a result of an inspection. Page 1 of 2

PM / Inspection Checklist

15 **Capacitor B201 Basement** STF 9030 HOL 60834

Check PCB Logo
Check condition of equipment/leak or fitting
Check for equipment in use

2008 PCB Transformer Quarterly Inspections

PM / Inspection Checklist

PM / INSP# : 123 Building Area B-G PM Description : PCB Quarterly Inspections

Next Due Date 4/4/2008 Last Complete 1/4/2008 PM Completion Date: 3-17-08 Status Active Hours

Due every 3 mths Person Assigned RP DB BH Procedure STF 9030

PM Group Linsman, Facility Power PM Category Inspection

Notes Per Inspection Report - 1/3/08 - 5-A, 11-A, 12-A - NON PCB

Item	Description	Procedure	Equip#	Comp
1	**5-A Transformer PCB (3164568)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N 3164568	
2	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	
3	**11-A Transformer (F982786)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N F982786	
4	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N PLR49861	
5	**Transformer, Precipitator (L495599PMLB) 2150 ILbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLB	
6	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLB	
7	**Transformer, Precipitator (L495613PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495613PMLB	
8	**Transformer, Precipitator (L495622PMLB) 2150 lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	L495622PMLB	
9	**Transformer, Precipitator (L495625PMLB) 2150Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495625PMLB	
10	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	
11	**8-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	
12	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	

Thursday, March 13, 2008 Issue a work order if more than 30 minutes of maintenance repair time is required as a result of an inspection. Page 1 of 2

PM / Inspection Checklist

13	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	✓
14	**Capacitors (6) (30861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30861	✓
15	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	✓
16	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60834	✓

PM / Inspection Checklist

PM / INSP# : 123 Building Area B-G PM Description : PCB Quarterly Inspections

Next Due Date 6/17/2008 Last Complete 3/17/2008 PM Completion Date: 6/18/08 Status Active Hours ___

Due every 3 mths Person Assigned Barbara Procedure STF

PM Group Lineman, Facility Power PM Category Inspection 9030

Notes Per Inspection Report - 1/3/08 - 5-A, 11-A, 12-A - NON PCB

Item	Description	Procedure	Equip#	Comp
1	5-A Transformer PCB (3184568) Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N 3184568	☑
2	8-A Transformer (7146128) Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146128	☑
3	11-A Transformer (F962786). Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N F962786	☑
4	12-A Transformer (PLR49851) Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N PLR49851	☑
5	Transformer, Precipitator (L495599PMLB) 2150 lLbs Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLB	☑
6	Transformer, Precipitator (L495603PMLB) 2150 Lbs Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLB	☑
7	Transformer, Precipitator (L495613PMLB) 2150 Lbs Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495613PMLB	☑
8	Transformer, Precipitator (L495622PMLB) 2150 lbs Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	L495622PMLB	☑
9	Transformer, Precipitator (L495625PMLB) 2150Lbs Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495625PMLB	☑
10	5-A Small Capacitator (MCC DOOR) Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	☑
11	6-A Small Capacitator (MCC DOOR) Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	☑
12	7-A Small Capacitator (MCC DOOR) Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	☑

Tuesday, June 17, 2008 Issue a work order if more than 30 minutes of maintenance repair time is required as a result of an inspection. Page 1 of 2

Ordnance Systems Inc.

PM / Inspection Checklist

13	20-A Small Capacitator (MCC DOOR) Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use		STF 9030	ID# 0050
14	Capacitors (6) (30961) 84 Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use		STF 9030	HOL 30961
15	Capacitor B201 Basement Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use		STF 9030	HOL 60835
16	Capacitor B201 Basement Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use		STF 9030	HOL 60834

Copy Sent To KARIN 8/4/08 cd

PM / Inspection Checklist

PM / INSP#: 123 **Building** Area B-G **PM Description:** PCB Quarterly Inspections

Next Due Date 7/18/2008 **Last Complete** 6/18/2008 **PM Completion Date:** 7-25-08 **Status** Active **Hours** ___

Due every 3 mths **Person Assigned** Burton **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes Per Inspection Report - 1/3/08 - 5-A, 11-A, 12-A - NON PCB

Item	Description	Procedure	Equip#	Comp
1	**5-A Transformer PCB (3164568)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N 3164568	✓
2	**8-A Transformer (7146126)** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	✓
3	**11-A Transformer (F962786)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N F962786	✓
4	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N PLR49861	✓
5	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLB	✓
6	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid Charlotte Please remove	STF 9030	S/N L495603PMLB	✓
7	**Transformer, Precipitator (L495613PMLB) 2150 Lbs** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid Moved to 122 PCB storage	STF 9030	S/N L495613PMLB	✓ Removed 8/4 cd
8	**Transformer, Precipitator (L495622PMLB) 2150 lbs** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	L495622PMLB	✓
9	**Transformer, Precipitator (L495625PMLB) 2150Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495625PMLB	✓
10	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	✓
11	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	✓
12	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	✓

Thursday, July 24, 2008 Issue a work order if more than 30 minutes of maintenance repair time is required as a result of an inspection. Page 1 of 2

PM / Inspection Checklist

13	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	☑
14	**Capacitors (6) (30981)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30981	☑
15	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	☑
16	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60834	☑

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description :** PCB Quarterly Inspections

Next Due Date 10/15/2008 **Last Complete** 7/28/2008 **PM Completion Date:** 2. U-CJ **Status** Active **Hours** ____

Due every 3 mths **Person Assigned** [illegible] **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes Per Inspection Report - 1/3/08 - 5-A, 11-A, 12-A - NON PCB
7/28/08 - L495613PMLB - Moved to Bldg #122, PCB Storage, taken off this PM.
8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.

Item	Description	Procedure	Equip#	Comp
1	**5-A Transformer PCB (3184568)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N 3184568	✓
2	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	✓
3	**11-A Transformer (F962786)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N F962786	✓
4	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N PLR49861	✓
5	**Transformer, Precipitator (L495599PMLB) 2150 LLbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLB	✓
6	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLB	✓
7	**Transformer, Precipitator (L495622PMLB) 2150 lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	L495622PMLB	✓
8	**Transformer, Precipitator (L495625PMLB) 2150Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495625PMLB	✓
9	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	✓
10	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	✓
11	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equiptment in use	STF 9030	ID# 0047	✓

Monday, October 13, 2008 Issue a work order if more than 30 minutes of maintenance repair time is required as a result of an Inspection. Page 1 of 2

F M / Inspection Checklist

.	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	✓
13	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	✓
14	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	✓
15	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60834	✓

PCB INVENTORY – JUNE 2009
HOLSTON ARMY AMMUNITION PLANT

EQUIPMENT TYPE	CODE	SERIAL NUMBER	CLASSIFICATION	Fluid Type	VOLUME (Gals.)	PCB CONC. (ppm)	EQUIPMENT LOCATION
Transformer	TR	L495599PMLB	Full PCB	Pyranol	82 gal	>500	200, boiler#1
Transformer	TR	L495603PMLB	Full PCB	Pyranol	82 gal	>500	200, boiler#2
Transformer	TR	7146126	Full PCB	Pyranol	258 gal	>500	8A, elect Rm
Transformer	TR	F962786	Contaminated PCB; Unit reclassified as non-PCB		610 gal	Previously 158 prior to PCBX; Reclassified as non-PCB (10 ppm PCBs)	11A
Transformer	TR	PLR49861	Contaminated PCB; Being reclassified – requires sampling after in service for 90 days. Unit requires upgrade before being brought online; dependent upon funding availability.		3244gal	63	12A
Transformer	TR	3164568	Contaminated PCB; Unit reclassified as non-PCB		423 gal	Previously 54 ppm prior to PCBS; Reclassified as non-PCB (0.71 ppm PCBs)	5A
Capacitor	CA	HOL#30961	Large	Pyranol	9 gal	>500	8A, elect. Rm.
Capacitor	CA	HOL#60835	Small	Pyranol	1 pt.	>500	201,basement
Capacitor	CA	HOL#60834	Small	Pyranol	1 pt.	>500	201,basement
SM Capacitor	X	ID#0045	Small	Pyranol	ND	>500	5A, MCC
SM Capacitor	X	ID#0046	Small	Pyranol	ND	>500	6A, MCC
SM Capacitor	X	ID#0047	Small	Pyranol	ND	>500	7A, MCC
SM Capacitor	X	ID#0050	Small	Pyranol	ND	>500	20A, MCC

ND = Not detectable

Transformers 5-A, 11-A and 12-A underwent PCBX decontamination for PCBs in July 2006. To complete the reclassification process, a sample must be collected and analyzed for PCBs after the transformer is in operation for 90 days. Reclassification samples have been collected from 5-A and 11-A as described above. Transformer 12-A is in need of electrical upgrades prior to being brought back online. A reclassification sample will be collected from transformer 12-A 90 days after the unit is operational.

PCB ITEMS IN STORAGE
JANUARY 2008 – June 2009
HOLSTON ARMY AMMUNITION PLANT

Equipment Type	Serial No.	Removed From	Date Removed	Date Stored	Stored at Bldg.	Vol. (Gals.)	Total Kg.	New Drum (Y/N)	Drum No.	Comments
5 KVA Transformer; GE	6833941	General facility power distribution; discovered PCB after testing prior to disposal.	8/2/07	8/2/07	B-122	6.25	200.6	Y	NA	Shipped offsite 07/23/08
Transformer	L495613PMLB	200, boiler#2	6/19/08	6/19/08	B-122	82 gal	907.2	NA	NA	Shipped offsite 03/23/09
Transformer	L495622PMLB	200, boiler#3	3/11/09	3/11/09	B-122	82 gal	907.2	NA	NA	
Transformer	L495625PMLB	200, boiler#3	3/11/09	3/11/09	B-122	82 gal	907.2	NA	NA	

PCB ITEMS DISPOSED

JANUARY 2008 – June 2009
HOLSTON ARMY AMMUNITION PLANT

Equipment Type	Serial No.	Removed From	Date Removed	Date Stored	Stored at Bldg.	Vol. (Gals.)	Total Wt.(kg)	Date Shipped	Date Disposed
5 KVA Transformer; GE	6833941	General facility power distribution; discovered PCB after testing prior to disposal.	8/2/07	8/2/07	B-122	6.25	200.6	7/23/08	8/21/08*
Transformer	L495613PMLB	200, boiler#2	6/19/08	6/19/08	B-122	82 gal	907.2	3/23/09	6/19/09
Transformer	L495622PMLB	200, boiler#3	3/11/09	3/11/09	B-122	82 gal	907.2	3/23/09	6/23/09
Transformer	L495625PMLB	200, boiler#3	3/11/09	3/11/09	B-122	82 gal	907.2	3/23/09	6/23/09

*Reported to EPA transformer was not disposed of within one calendar year after removal.

BAE SYSTEMS

Ordnance Systems Inc.

Holston Army Ammunition Plant
4509 West Stone Drive
Kingsport, TN 37660-9982

EPA Identification Number: TN 5210020421

PCB Annual Document Log
January 1, 2010 – December 31, 2010

Prepared by: Environmental and Electrical Departments
Submitted by: Environmental Department

PCB Transformer Inspection Example Checklist

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description : PCB Quarterly Inspections**

Next Due Date 7/21/2011 **Last Complete** 4/21/2011 **PM Completion Date:** _____ **Status** Active **Hours**

Due every 3 **mths** **Person Assigned** _____ **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes Per Inspection Report - 1/3/08 - 5-A, 11-A, 12-A - NON PCB
7/28/08 - L495613PMLB - Moved to Bldg #122, PCB Storage, taken off this PM.
8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.
3/11/09 - L495625PMLB & L495622PMLB removed fron Bldg 200 & stored at Bldg 122
7/14 /2010 - Removed 3164568, F962786, PLR49861, all non-PCB
7/22-2010 - Added PLR49861 back to PM, per Amy

Item	Description	Procedure	Equip#	Comp
1	**8-A Transformer (7146126)** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	
2	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	S/N PLR49861	
3	**Transformer, Precipitator (L495599PMLB) 2150 LBs** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLE	
4	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLE	
5	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	
6	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	
7	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	
8	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	
9	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	
10	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	
11	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60834	

2010 PCB Transformer Quarterly Inspections

Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description :** PCB Quarterly Inspections

Next Due Date 1/2/2010 **Last Complete** 10/2/2009 **PM Completion Date:** 1/20/10 **Status** Active **Hours** ____

Due every 3 **mths** **Person Assigned** Burton / Hudson **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes Per Inspection Report - 1/3/08 - 5-A, 11-A, 12-A - NON PCB
7/28/08 - L495613PMLB - Moved to Bldg #122, PCB Storage, taken off this PM.
8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.
3/11/09 - L495625PMLB & L495622PMLB removed fron Bldg 200 & stored at Bldg 122

Item	Description	Procedure	Equip#	Comp
1	**5-A Transformer PCB (3164568)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N 3164568	☑
2	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	☑
3	**11-A Transformer (F962786)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N F962786	☑
4	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N PLR49861	☑
5	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLB	☑
6	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLB	☑
9	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	☑
10	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	☑
11	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equiptment in use	STF 9030	ID# 0047	☑
12	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	☑
13	**Capacitors (6) (30961)** 84 Check PCB Logo. Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	☑
14	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	☑

15. Capacitor B201 Basement — STF 9030 — HOL 60834 ☑
Check PCB Logo
Check condition of equipment/leak or filming
Check for equipment in use

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description :** PCB Quarterly Inspections

Next Due Date 4/20/2010 **Last Complete** 1/20/2010 **PM Completion Date:** 4-20-2010 **Status** Active **Hours** 5

Due every 3 mths **Person Assigned** K.P. & D.B. **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes Per Inspection Report - 1/3/08 - 5-A, 11-A, 12-A - NON PCB
7/28/08 - L495613PMLB - Moved to Bldg #122, PCB Storage, taken off this PM.
8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.
3/11/09 - L495625PMLB & L495622PMLB removed fron Bldg 200 & stored at Bldg 122

Item	Description	Procedure	Equip#	Comp
1	**5-A Transformer PCB (3164568)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N 3164568	✓
2	**5-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	✓
3	**11-A Transformer (F962786)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N F962786	✓
4	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)	STF 9030	S/N PLR49861	✓
5	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLE	✓
6	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLE	✓
9	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	✓
10	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	✓
11	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	✓
12	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	✓
13	**Capacitors (6) (30961)** 8-A Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	✓
14	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	✓

15	Capacitor B201 Basement Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60834	☑

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description :** PCB Quarterly Inspections

Next Due Date 7/20/2010 **Last Complete** 4/20/2010 **PM Completion Date:** 07-14-2010 **Status** Active **Hours** 6

Due every 3 mths **Person Assigned** J. Boggs **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes Per Inspection Report - 1/3/08 - 5-A, 11-A, 12-A - NON PCB
7/28/08 - L495613PMLB - Moved to Bldg #122, PCB Storage, taken off this PM.
8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.
3/11/09 - L495625PMLB & L495622PMLB removed fron Bldg 200 & stored at Bldg 122

Item	Description	Procedure	Equip#	Comp
1	**5-A Transformer PCB (3164568)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB) Removed From PM 7/14/2010	STF 9030	S/N 3164568	?
2	**8-A Transformer (7146126)** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	✓
3	**11-A Transformer (F962786)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB) Removed 7/14/2010	STF 9030	S/N F962786	? Checked JB
4	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB) ~~Removed 7/14/2010~~ CJ Added BACK ON 7/22/2010	STF 9030	S/N PLR49861	✓
5	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLB	✓
6	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLB	✓
9	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	✓
10	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	✓
11	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	✓
12	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	✓
13	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	✓
14	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	✓

15	Capacitor B201 Basement Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60834	✓

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description :** PCB Quarterly Inspections

Next Due Date 10/14/2010 **Last Complete** 7/14/2010 **PM Completion Date:** 10/14/2010 **Status** Active **Hours** ____

Due every 3 mths **Person Assigned** R. Perry, J. Perry **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes Per Inspection Report - 1/3/08 - 5-A, 11-A, 12-A - NON PCB
7/28/08 - L495613PMLB - Moved to Bldg #122, PCB Storage, taken off this PM.
8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.
3/11/09 - L495625PMLB & L495622PMLB removed fron Bldg 200 & stored at Bldg 122
7/14 /2010 - Removed 3164568, F962786, PLR49861, all non-PCB
7/22-2010 - Added PLR49861 back to PM, per Amy

Item	Description	Procedure	Equip#	Comp
1	**6-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	☑
2	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	S/N PLR49861	☑
3	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLB	☑
4	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLB	☑
5	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	☑
6	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	☑
7	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	☑
8	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	☑
9	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	☑
10	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	☑
11	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60834	☑

PCB INVENTORY – DECEMBER 31, 2010
HOLSTON ARMY AMMUNITION PLANT

EQUIPMENT TYPE	CODE	SERIAL NUMBER	CLASSIFICATION	Fluid Type	VOLUME (Gals.)	PCB CONC. (ppm)	EQUIPMENT LOCATION
Transformer	TR	L495599PMLB	Full PCB	Pyranol	82 gal	>500	200, boiler#1
Transformer	TR	L495603PMLB	Full PCB	Pyranol	82 gal	>500	200, boiler#2
Transformer	TR	7146126	Full PCB	Pyranol	258 gal	>500	8A, elect Rm
Transformer	TR	PLR49861	Contaminated PCB; Being reclassified – requires sampling after in service for 90 days. Unit requires upgrade before being brought online – dependent upon funding availability.		3244gal	63	12A
Capacitor	CA	HOL#30961	Large	Pyranol	9 gal	>500	8A, elect. Rm.
Capacitor	CA	HOL#60835	Small	Pyranol	1 pt.	>500	201,basement
Capacitor	CA	HOL#60834	Small	Pyranol	1 pt.	>500	201,basement
SM Capacitor	X	ID#0045	Small	Pyranol	ND	>500	5A, MCC
SM Capacitor	X	ID#0046	Small	Pyranol	ND	>500	6A, MCC
SM Capacitor	X	ID#0047	Small	Pyranol	ND	>500	7A, MCC
SM Capacitor	X	ID#0050	Small	Pyranol	ND	>500	20A, MCC

ND = Not detectable

TRANSFORMERS RECLASIFIED AS NON-PCB

EQUIPMENT TYPE	CODE	SERIAL NUMBER	CLASSIFICATION	Fluid Type	VOLUME (Gals.)	PCB CONC. (ppm)	EQUIPMENT LOCATION
Transformer	TR	F962786	Formerly classified as contaminated PCB; Unit reclassified as non-PCB		610 gal	Previously 158 prior to PCBX; Reclassified as non-PCB (10 ppm PCBs)	11A
Transformer	TR	3164568	Formerly classified as contaminated PCB; Unit reclassified as non-PCB		423 gal	Previously 54 ppm prior to PCBX; Reclassified as non-PCB (0.71 ppm PCBs)	5A
Transformer	TR	PLR49861	Contaminated PCB; Being reclassified – requires sampling after in service for 90 days. Unit requires upgrade before being brought online – dependent upon funding availability.		3244gal	63	12A

PCB ITEMS IN STORAGE
JANUARY 1, 2010 – DECEMBER 31, 2010
HOLSTON ARMY AMMUNITION PLANT

Equipment Type	Serial No.	Removed From	Date Removed	Date Stored	Stored at Bldg.	Vol. (Gals.)	Total Kg.	New Drum (Y/N)	Drum No.	Comments
No PCB items stored in B-122 in 2010.										

PCB ITEMS DISPOSED
JANUARY 1, 2010 – DECEMBER 31, 2010
HOLSTON ARMY AMMUNITION PLANT

Equipment Type	Serial No.	Removed From	Date Removed	Date Stored	Stored at Bldg.	Vol. (Gals.)	Total Wt.(kg)	Date Shipped	Date Disposed
No PCB items disposed in 2010									

BAE SYSTEMS

Ordnance Systems Inc.

Holston Army Ammunition Plant
4509 West Stone Drive
Kingsport, TN 37660-9982

EPA Identification Number: TN 5210020421

PCB Annual Document Log
January 1, 2011 – December 31, 2011

Prepared by: Environmental and Electrical Departments
Submitted by: Environmental Department

PCB Transformer Inspection Example Checklist

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description : PCB Quarterly Inspections**

Next Due Date 7/21/2011 **Last Complete** 4/21/2011 **PM Completion Date:** _____ **Status** Active **Hours**

Due every 3 **mths** **Person Assigned** _____ **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes Per Inspection Report - 1/3/08 - 5-A, 11-A, 12-A - NON PCB
7/28/08 - L495613PMLB - Moved to Bldg #122, PCB Storage, taken off this PM.
6/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.
3/11/09 - L495625PMLB & L495622PMLB removed fron Bldg 200 & stored at Bldg 122
7/14 /2010 - Removed 3164568, F962786, PLR49861, all non-PCB
7/22-2010 - Added PLR49861 back to PM, per Amy

Item	Description	Procedure	Equip#	Comp
1	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	
2	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	S/N PLR49861	
3	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLE	
4	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLE	
5	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	
6	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	
7	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	
8	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	
9	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	
10	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	
11	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60834	

2011 PCB Transformer Quarterly Inspections

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description :** PCB Quarterly Inspections

Next Due Date 1/4/2011 **Last Complete** 10/4/2010 **PM Completion Date:** [redacted] 1-4-11 **Status** Active **Hours**

Due every 3 **mths** **Person Assigned** R.P. SB. **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes Per Inspection Report - 1/3/08 - 5-A, 11-A, 12-A - NON PCB
7/28/08 - L495613PMLB - Moved to Bldg #122, PCB Storage, taken off this PM.
8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.
3/11/09 - L495625PMLB & L495622PMLB removed fron Bldg 200 & stored at Bldg 122
7/14 /2010 - Removed 3164568, F962786, PLR49861, all non-PCB
7/22-2010 - Added PLR49861 back to PM, per Amy

Item	Description	Procedure	Equip#	Comp
1	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	✓
2	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	S/N PLR49861	✓
3	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLB	✓
4	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLB	✓
5	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	✓
6	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	✓
7	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	✓
8	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	✓
9	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	✓
10	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	✓
11	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60834	✓

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description :** PCB Quarterly Inspections

Next Due Date 4/5/2011 **Last Complete** 1/5/2011 **PM Completion Date:** 4/21/11 **Status** Active **Hours**

Due every 3 **mths** **Person Assigned** Kelly, Holder **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes Per Inspection Report - 1/3/08 - 5-A, 11-A, 12-A - NON PCB
7/28/08 - L495613PMLB - Moved to Bldg #122, PCB Storage, taken off this PM.
8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.
3/11/09 - L495625PMLB & L495622PMLB removed fron Bldg 200 & stored at Bldg 122
7/14 /2010 - Removed 3164568, F962786, PLR49861, all non-PCB
7/22-2010 - Added PLR49861 back to PM, per Amy

Item	Description	Procedure	Equip#	Comp
1	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	✓
2	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	S/N PLR49861	✓
3	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLE	✓
4	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLE	✓
5	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	✓
6	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	✓
7	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equiptment in use	STF 9030	ID# 0047	✓
8	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	✓
9	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	✓
10	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	✓
11	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60834	✓

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description :** PCB Quarterly Inspections

Next Due Date 7/21/2011 **Last Complete** 4/21/2011 **PM Completion Date:** 7-21-2011 **Status** Active **Hours**

Due every 3 **mths** **Person Assigned** Randy Perry **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes Per Inspection Report - 1/3/08 - 5-A, 11-A, 12-A - NON PCB
7/28/08 - L495613PMLB - Moved to Bldg #122, PCB Storage, taken off this PM.
8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.
3/11/09 - L495625PMLB & L495622PMLB removed fron Bldg 200 & stored at Bldg 122
7/14 /2010 - Removed 3164568, F962786, PLR49861, all non-PCB
7/22-2010 - Added PLR49861 back to PM, per Amy

Item	Description	Procedure	Equip#	Comp
1	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	✓
2	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	S/N PLR49861	✓
3	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLE	✓
4	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLE	✓
5	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	✓
6	**6-A Small Capacitator (MCC DDOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	✓
7	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	✓
8	**20-A Small Capacitator (MCC DDOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	✓
9	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	✓
10	**Capacitor B201 Basement** Check PCB Logo no inside logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	✓
11	**Capacitor B201 Basement** Check PCB Logo no inside logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60834	✓

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description : PCB Quarterly Inspections**

Next Due Date 10/21/2011 **Last Complete** 7/21/2011 **PM Completion Date:** 10-17-2011 **Status** Active **Hours**

Due every 3 **mths** **Person Assigned** R. Berry **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes Per Inspection Report - 1/3/08 - 5-A, 11-A, 12-A - NON PCB
7/28/08 - L495613PMLB - Moved to Bldg #122, PCB Storage, taken off this PM.
8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.
3/11/09 - L495625PMLB & L495622PMLB removed fron Bldg 200 & stored at Bldg 122
7/14 /2010 - Removed 3164568, F962786, PLR49861, all non-PCB
7/22-2010 - Added PLR49861 back to PM, per Amy

Item	Description	Procedure	Equip#	Comp
1	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	✓
2	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	S/N PLR49861	✓
3	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLE	✓
4	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLE	✓
5	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	✓
6	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	✓
7	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	✓
8	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	✓
9	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	✓
10	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	✓
11	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60834	✓

PCB INVENTORY – DECEMBER 31, 2011
HOLSTON ARMY AMMUNITION PLANT

EQUIPMENT TYPE	CODE	SERIAL NUMBER	CLASSIFICATION	Fluid Type	VOLUME (Gals.)	PCB CONC. (ppm)	EQUIPMENT LOCATION
Transformer	TR	L495599PMLB	Full PCB	Pyranol	82 gal	>500	200, boiler#1
Transformer	TR	L495603PMLB	Full PCB	Pyranol	82 gal	>500	200, boiler#2
Transformer	TR	7146126	Full PCB	Pyranol	258 gal	>500	8A, elect Rm
Transformer	TR	PLR49861	Contaminated PCB; Being reclassified – requires sampling after in service for 90 days. Unit requires upgrade before being brought online – dependent upon funding availability.		3244gal	63	12A
Capacitor	CA	HOL#30961	Large	Pyranol	9 gal	>500	8A, elect. Rm.
Capacitor	CA	HOL#60835	Small	Pyranol	1 pt.	>500	201,basement
Capacitor	CA	HOL#60834	Small	Pyranol	1 pt.	>500	201,basement
SM Capacitor	X	ID#0045	Small	Pyranol	ND	>500	5A, MCC
SM Capacitor	X	ID#0046	Small	Pyranol	ND	>500	6A, MCC
SM Capacitor	X	ID#0047	Small	Pyranol	ND	>500	7A, MCC
SM Capacitor	X	ID#0050	Small	Pyranol	ND	>500	20A, MCC

ND = Not detectable

TRANSFORMERS RECLASIFIED AS NON-PCB

EQUIPMENT TYPE	CODE	SERIAL NUMBER	CLASSIFICATION	Fluid Type	VOLUME (Gals.)	PCB CONC. (ppm)	EQUIPMENT LOCATION
Transformer	TR	F962786	Formerly classified as contaminated PCB; Unit reclassified as non-PCB		610 gal	Previously 158 prior to PCBX; Reclassified as non-PCB (10 ppm PCBs)	11A
Transformer	TR	3164568	Formerly classified as contaminated PCB; Unit reclassified as non-PCB		423 gal	Previously 54 ppm prior to PCBX; Reclassified as non-PCB (0.71 ppm PCBs)	5A
Transformer	TR	PLR49861	Contaminated PCB; Being reclassified – requires sampling after in service for 90 days. Unit requires upgrade before being brought online – dependent upon funding availability.		3244gal	63	12A

PCB ITEMS IN STORAGE
JANUARY 1, 2011 – DECEMBER 31, 2011
HOLSTON ARMY AMMUNITION PLANT

Equipment Type	Serial No.	Removed From	Date Removed	Date Stored	Stored at Bldg.	Vol. (Gals.)	Total Kg.	New Drum (Y/N)	Drum No.	Comments
Electrical Items Potentially Containing PCBs	N/A	Area A	6/9/11	6/9/11	122	N/A	92	N	1	It was unknown if the capacitors on the electrical boards contained PCBs, so they were treated as if they did contain PCBs.

PCB ITEMS DISPOSED
JANUARY 1, 2011 – DECEMBER 31, 2011
HOLSTON ARMY AMMUNITION PLANT

Equipment Type	Serial No.	Removed From	Date Removed	Date Stored	Stored at Bldg.	Vol. (Gals.)	Total Wt.(kg)	Date Shipped	Date Disposed
Electrical Items Potentially Containing PCBs	N/A	Area A	6/9/11	6/9/11	122	N/A	92	8/11/11	8/30/11

Manifest and Certificate of Disposal from Clean Harbors

** ACR **

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) LV3898937-002 SC PFW 3/3/2011 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	TN5210020421	2	(800) 483-3718	004472699 FLE

5. Generator's Name and Mailing Address
BAE Systems Ordnance Systems
4509 West Stone Drive
Kingsport, TN 37660
Generator's Phone: (423) 578-6417

Generator's Site Address (if different than mailing address)
SAME

6. Transporter 1 Company Name
Clean Harbors Environmental Services Inc

U.S. EPA ID Number
MAD039322250

7. Transporter 2 Company Name
Robbie D Wood Inc
Clean Harbors Environmental Services Inc

U.S. EPA ID Number
ATD 067138891
MAD039322250

8. Designated Facility Name and Site Address
Clean Harbors Deer Park, LLC
2027 Independence Parkway South
La Porte, TX 77571
Facility's Phone: (281) 930-2300

U.S. EPA ID Number
TXD055141378

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN1993, WASTE FLAMMABLE LIQUIDS, N.O.S., (1-METHYL-2-PYRROLIDONE, PETROLEUM NAPTHA), 3, PG II (D001), (BAE-02)	001	DF	00220	P	D001 OUTS01H
X	2. UN1993, WASTE FLAMMABLE LIQUIDS, N.O.S., (ANISOLE), 3, PG II, (BAE-02)	001	DF	00040	P	D001 OUTS01H
X	3. RQ, UN1263, WASTE PAINT RELATED MATERIAL, 3, PG III (D001)	001	DM	00450	P	D001 D035 F003 F005 OUTS21H
X	4. UN2810, WASTE TOXIC LIQUIDS, ORGANIC, N.O.S. (CHLOROFORM), 6.1, PG II, (BAE-04)	001	DF	00020	P	D022 U044 OUTS01H

14. Special Handling Instructions and Additional Information
1. LCCRD ERG#128 1X55
2. LCCRD ERG#128 1X16
3. CMS17757 ERG#128 1X55
4. LCCRC ERG#153 1X5

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

Generator's/Offeror's Printed/Typed Name: Amy E. Crawford
Signature: Amy E Crawford
Month: 08 Day: 11 Year: 11

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Robbie D Woody Jr
Signature:
Month: 08 Day: 11 Year: 11
Transporter 2 Printed/Typed Name: Ronaldo Gonzalez
Signature:
Month: 08 Day: 12 Year: 11

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040	H040	H040	H040

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Steve Stevens
Signature:
Month: 8 Day: 22 Year: 11

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

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)
Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) LW2698937-002 SC PPW 3/3/2011 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	TN5210020421	2 of 2	004472999ELE

24. Generator's Name: Bae Systems Ordinance Systems

25. Transporter 3 Company Name: Clean Harbors ENV. U.S. EPA ID Number: MAD039322250

26. Transporter ____ Company Name: Clean Harbors U.S. EPA ID Number: MAD039322250

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	5. UN3077, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S., (LEAD PAINT CHIPS), 9, PG III, (BAE-05)	001	DF	00020	P	D008		
							D018	
X	6. UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PG III, (OUT OF SERVICE DATE 06-11-2011)	001	DM	~~00040~~ 92	P/K	EB		
							D018	
	7. NON D.O.T. REGULATED, (WAX EMULSION), (BAE-03)	001	DF	00040	P			
							D018	

32. Special Handling Instructions and Additional Information

8. LCCRC ERG#171 1K55
6. CHS17762 ERG#171 1K55
7. LCCRM 1K30

33. Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name: Larry Pope Signature: L S Pope Month: 8 Day: 18 Year: 11

34. Transporter ____ Acknowledgment of Receipt of Materials
Printed/Typed Name: Sandy Beach Signature: Sandy Beach Month: 8 Day: 20 Year: 11

35. Discrepancy
Per Amy Crawford the above Quantity has been changed 8-24-11 EB

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

8. H040	6. H141	7. H040	

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

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

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

CERTIFICATE OF DISPOSAL

Generator Facility Name:	Bae Systems Ordinance Systems	Sales Order#:	LV3698937
Generator Address:	4509 West Stone Drive Kingsport, TN, 37660	Date Received:	8/22/2011
Generator Contact Name:			
Generator EPA ID:	TN5210020421	Load #:	334888
		Manifest #:	004472699FLE

Original CH ID #	Date Removed From Service	Unit Type	Serial # / Customer ID	Material Description	Disposal Date	Method of Disposal	Disposal Facility
24816695	8/11/2011	DM	24816695 /	Capacitor For Incineration	8/30/2011	Incineration	Deer Park, TX Facility

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

Authorized Agent

Thursday, September 08, 2011
Date

Page 1 of 1

2011 B-122 PCB Storage Area Inspections

THIRTY DAY PCB STORAGE INSPECTION
HOLSTON ARMY AMMUNITION PLANT
KINGSPORT, TENNESSEE

PCB Article Serial No.	Description	PPM	Weight	Date Removed	Date Stored	Date of Inspection	Signature of Inspector
495613PMLB	G.E. 45 KVA		2050 lbs.	6-19-2008	6-19-2008	11-3-2008	Randy [illegible]
"	" "		" "	" "	" "	12-8-2008	Randy [illegible]
" "	" "		" "	" "	" "	1-12-2009	Randy [illegible]
" "	" "		" "	" "	" "	2-[illegible]-2009	Randy [illegible]
495613PMLB	" "		2150 lbs	6-19-08	6-19-2009	3-11-2009	Randy [illegible]
495695PMLB	" "		2150 lbs	3-11-2009	3-11-2009	3-11-2009	Randy [illegible]
495623PMLB	" "		2150 lbs	3-11-2009	3-11-2009	3-11-2009	Randy [illegible]
495613PMLB	" "		2150 lbs	3-23-2009			Randy [illegible]
495625PMLB	" "		2150 lbs	3-23-2009			Randy [illegible]
495628PMLB	" "		2150 lbs	3-23-2009			Randy [illegible]
	Electrical Items		100 lbs				
	Potentially containing				6-9-11	6-9-11	Chris Smith
	PCBs from Area A						
	"		100 lbs		~~6-9-11~~ ~~7-18-11~~ AEC	7-18-11	Amy E Crawford
	" "		100 lbs		[redacted] "	8-8-11	Randy [illegible]
	"		100 lbs	~~8-9-11~~	6-9-11	8-11-11	Amy E Crawford
				8-11-11 AEC			

BAE SYSTEMS

Ordnance Systems Inc.

Holston Army Ammunition Plant
4509 West Stone Drive
Kingsport, TN 37660-9982

EPA Identification Number: TN 5210020421

PCB Annual Document Log
January 1, 2012 – December 31, 2012

Prepared by: Environmental and Electrical Departments
Submitted by: Environmental Department

2012 PCB Transformer Quarterly Inspections

Note: In July 2013, the Electrical and Instrument Services Manager contacted GE regarding the capacitors in B-201 (items 10 and 11 on the checklist). Per GE, these capacitors do not contain PCBs. They have been removed from the PCB inventory and quarterly inspection checklist.

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description :** PCB Quarterly Inspections

Next Due Date 1/17/2012 **Last Complete** 10/17/2011 **PM Completion Date:** 1/17/12 **Status** Active **Hours**

Due every 3 mths **Person Assigned** Alley/Harris **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes Per Inspection Report - 1/3/08 - 5-A, 11-A, 12-A - NON PCB
7/28/08 - L495613PMLB - Moved to Bldg #122, PCB Storage, taken off this PM.
8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.
3/11/09 - L495625PMLB & L495622PMLB removed fron Bldg 200 & stored at Bldg 122
7/14 /2010 - Removed 3164568, F962786, PLR49861, all non-PCB
7/22-2010 - Added PLR49861 back to PM, per Amy

Item	Description	Procedure	Equip#	Comp
1	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	✓
2	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	S/N PLR49861	✓
3	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid Steam Plant Area B	STF 9030	S/N L495599PMLE	✓
4	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLE	✓
5	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	✓
6	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	✓
7	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	✓
8	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	✓
9	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	✓
10	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use removed	STF 9030	HOL 60835	✓
11	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use removed	STF 9030	HOL 60834	✓

PM / Inspection Checklist

PM / INSP#: 123 **Building** Area B-G **PM Description :** PCB Quarterly Inspections

Next Due Date 4/17/2012 **Last Complete** 1/17/2012 **PM Completion Date:** 4/15/12 **Status** Active **Hours**

Due every 3 mths **Person Assigned** CA/SH **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes Per Inspection Report - 1/3/08 - 5-A, 11-A, 12-A - NON PCB
7/28/08 - L495613PMLB - Moved to Bldg #122, PCB Storage, taken off this PM.
8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.
3/11/09 - L495625PMLB & L495622PMLB removed fron Bldg 200 & stored at Bldg 122
7/14 /2010 - Removed 3164568, F962786, PLR49861, all non-PCB
7/22-2010 - Added PLR49861 back to PM, per Amy

Item	Description	Procedure	Equip#	Comp
1	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	✓
2	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use Removed / Doesn't exist	STF 9030	S/N PLR49861	✓
3	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLE	✓
4	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLE	✓
5	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	✓
6	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	✓
7	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	✓
8	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	✓
9	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	✓
10	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	✓
11	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60834	✓

PM / Inspection Checklist

PM / INSP#: 123 **Building** Area B-G **PM Description:** PCB Quarterly Inspections

Next Due Date 7/15/2012 **Last Complete** 4/15/2012 **PM Completion Date:** 7-25-12 **Status** Active **Hours**

Due every 3 mths **Person Assigned** Baggs, Darrell **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes 8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.

Item	Description	Procedure	Equip#	Comp
1	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	✓
2	**12-A Transformer (PLR49861)** Check PCB Logo Logo missing Check condition of equipment/leak or filming Check for equipment in use	STF 9030	S/N PLR49861	✓
3	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLE	✓
4	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLE	✓
5	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	✓
6	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	✓
7	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	✓
8	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	✓
9	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	✓
10	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Not there Check for equipment in use	STF 9030	HOL 60835	✓
11	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Not there Check for equipment in use	STF 9030	HOL 60834	✓

BAE SYSTEMS

Ordnance Systems Inc.

PCB Quarterly Inspections

PM / INSP#: 123 **Last Complete Date:** 7/25/2012

Building: Area B-G **Status:** Active

Next Due Date: 10/25/2012 **Procedure:** STF 9030

Due every 3 months **PM Completion Date:** 10-8-12

PM Group: Lineman, Facility Power **Hours:**

PM Category: Inspection **Person Assigned:** Alley / Darnell

Notes: 8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.

Item	Description	Procedure	Equip#	Complete
1	8-A Transformer (7146126) Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	✓	S/N 7146126	
3	Transformer, Precipitator (L495599PMLB) 2150 lLbs Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	✓	S/N L495599PMLB	
4	Transformer, Precipitator (L495603PMLB) 2150 Lbs Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	✓	S/N L495603PMLB	
5	5-A Small Capacitator Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	✓	ID# 0045	
6	6-A Small Capacitator Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	✓	ID# 0046	
7	7-A Small Capacitator Check PCB Logo Check conditon of equipment/leaks or filming Check For equiptment in use	✓	ID# 0047	
8	20-A Small Capacitator Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	✓	ID# 0050	
9	Capacitors (6) (30961) Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	✓	HOL 30961	
10	Capacitor B201 Basement Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use		HOL 60835	
11	Capacitor B201 Basement Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use		HOL 60834	
2	12-A Transformer (PLR49861) Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use		S/N PLR49861	
10/8/2012	B-8 Transformer	✓	S/N 35811	

PCB INVENTORY – DECEMBER 31, 2012
HOLSTON ARMY AMMUNITION PLANT

EQUIPMENT TYPE	CODE	SERIAL NUMBER	CLASSIFICATION	Fluid Type	VOLUME (Gals.)	PCB CONC. (ppm)	EQUIPMENT LOCATION
Transformer	TR	L495599PMLB	Full PCB	Pyranol	82 gal	>500	200, boiler#1
Transformer	TR	L495603PMLB	Full PCB	Pyranol	82 gal	>500	200, boiler#2
Transformer	TR	7146126	Full PCB	Pyranol	258 gal	>500	8A, elect Rm
Transformer*	TR	PLR49861	Contaminated PCB; Being reclassified – requires sampling once in service for 90 days. Unit requires upgrade before being brought online.*		3244gal	63	12A
6 Capacitors	CA	HOL#30961	Large	Pyranol	9 gal	>500	8A, elect. Rm.
SM Capacitor	X		Small	Pyranol	ND	>500	2A, MCC
SM Capacitor	X	ID#0045	Small	Pyranol	ND	>500	5A, MCC
SM Capacitor	X	ID#0046	Small	Pyranol	ND	>500	6A, MCC
SM Capacitor	X	ID#0047	Small	Pyranol	ND	>500	7A, MCC
SM Capacitor	X	ID#0050	Small	Pyranol	ND	>500	20A, MCC

ND = Not detectable

TRANSFORMERS RECLASIFIED AS NON-PCB

EQUIPMENT TYPE	CODE	SERIAL NUMBER	CLASSIFICATION	Fluid Type	VOLUME (Gals.)	PCB CONC. (ppm)	EQUIPMENT LOCATION
Transformer	TR	F962786	Formerly classified as contaminated PCB; Unit reclassified as non-PCB		610 gal	Previously 158 prior to PCBX; Reclassified as non-PCB (10 ppm PCBs)	11A
Transformer	TR	3164568	Formerly classified as contaminated PCB; Unit reclassified as non-PCB		423 gal	Previously 54 ppm prior to PCBX; Reclassified as non-PCB (0.71 ppm PCBs)	5A
Transformer*	TR	PLR49861	Contaminated PCB; Being reclassified – requires sampling once in service for 90 days. Unit requires upgrade before being brought online.*		3244gal	63	12A

*Note: Oil was removed from Transformer PLR49861 on March 6, 2013 for disposal, and the transformer itself was removed on June 19, 2013 for recycling of metal components. Manifests and certificates of disposal will be included in the 2013 PCB Annual Document Log.

PCB ITEMS IN STORAGE
JANUARY 1, 2012 – DECEMBER 31, 2012
HOLSTON ARMY AMMUNITION PLANT

Equipment Type	Serial No.	Removed From	Date Removed	Date Stored	Stored at Bldg.	Vol. (Gals.)	Total Kg.	New Drum (Y/N)	Drum No.	Comments
None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

PCB ITEMS DISPOSED
JANUARY 1, 2012 – DECEMBER 31, 2012
HOLSTON ARMY AMMUNITION PLANT

Equipment Type	Serial No.	Removed From	Date Removed	Date Stored	Stored at Bldg.	Vol. (Gals.)	Total Wt.(kg)	Date Shipped	Date Disposed
None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

BAE SYSTEMS

Ordnance Systems Inc.

Holston Army Ammunition Plant
4509 West Stone Drive
Kingsport, TN 37660-9982

EPA Identification Number: TN 5210020421

PCB Annual Document Log
January 1, 2013 – December 31, 2013

Prepared by: Environmental and Electrical Departments
Submitted by: Environmental Department

2013 PCB Transformer Quarterly Inspections

Note: In July 2013, the Electrical and Instrument Services Manager contacted GE regarding the capacitors in B-201 (items 10 and 11 on the checklist). Per GE, these capacitors do not contain PCBs. They have been removed from the PCB inventory and quarterly inspection checklist.

Crawford, Amy (US SSA)

From: Foy, Matthew (US SSA)
Sent: Tuesday, July 30, 2013 11:23 AM
To: Bright, Michael (US SSA); Harper, Scott (US SSA); Boggs, Jeffery (US SSA); Alley, Calvin (US SSA); Darnell, Justin (US SSA)
Cc: Crawford, Amy (US SSA)
Subject: Bldg 201 Pump House - Capacitors in basement

Importance: High

All,

See confirmation below. These capacitors DO NOT contain PCB fluids. Hence, any all references to them being treated as such, should be discontinued.

Amy – if you will update environmental's records (PCB plan, SPCC plans (?)), I'll see that our PM is updated to remove these items from the inspection list.

Thanks,

Matt Foy
BAE Systems - Ordnance Systems Inc.
Manager, Electrical & Instrument Services
O: 423.578.6086
E: matthew.foy@baesystems.com

From: ENERGY Parts Only Requests (GE Energy Services) [mailto:energy.partsonlyrequests@ge.com]
Sent: Tuesday, July 30, 2013 11:14 AM
To: Foy, Matthew (US SSA)
Subject: 43F763DA1 Capacitor

Hi Matt,

I spoke with my technical contact in regards to the Capacitor. Based off of the information you supplied me with.

The numbers on the Capacitor.

43F763DA1

1886733

161a8668p10

Specs:

300v dc surge
200mfd
non polar

My technical contact was able to conclude:
This is an electrolytic capacitor, it does not contain pyronol (PCB) fluid

I hope this helps. If you need any more information on this or anything else, come to us at the Parts Group.

Regards,
Michelle

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description :** Visual Inspection - PCB Equipment / Areas

Next Due Date 1/8/2013 **Last Complete** 10/8/2012 **PM Completion Date:** 1/9/13 **Status** Active **Hours** ___

Due every 3 **mths** **Person Assigned** C.A J.D **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes 8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.

Item	Description	Procedure	Equip#	Comp
1	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	✓
2	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	S/N PLR49861	✓
3	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLE	✓
4	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLE	✓
5	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	✓
6	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	✓
7	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	✓
8	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	✓
9	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	✓
10	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	
11	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60834	

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description :** Visual Inspection - PCB Equipment / Areas

Next Due Date 4/22/2013 **Last Complete** 1/22/2013 **PM Completion Date:** 3/26/13 **Status** Active **Hours** ____

Due every 3 **mths** **Person Assigned** Harper/Alley **Procedure** STF

PM Group Lineman, Facility Power **PM Category** Inspection 9030

Notes 8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.

Item	Description	Procedure	Equip#	Comp
1	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	✓
2	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use TRANSFORMER SCHEDULED TO BE REMOVED!	STF 9030	S/N PLR49861	✓
3	**Transformer, Precipitator (L495599PMLB) 2150 LBs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLE	✓
4	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLE	✓
5	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	✓
6	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	✓
7	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	✓
8	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	✓
9	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	✓
10	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use DOESN'T EXIST	STF 9030	HOL 60835	✓
11	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use DOESN'T EXIST	STF 9030	HOL 60834	✓

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description :** Visual Inspection - PCB Equipment / Areas

Next Due Date 6/26/2013 **Last Complete** 3/26/2013 **PM Completion Date:** 7-8-13 **Status** Active **Hours** ___

Due every 3 **mths** **Person Assigned** CA / SB **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes 8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.

Item	Description	Procedure	Equip#	Comp
1	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Not in use	STF 9030	S/N 7146126	✓
2	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use Removed From PM Per Amy CRAWFORD 7/9/2013 CJ Has Been Removed	STF 9030	S/N PLR49861	
3	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLE	✓
4	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLE	✓
5	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	✓
6	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	✓
7	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	✓
8	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	✓
9	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use Not in use	STF 9030	HOL 30961	✓
10	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use Not in use	STF 9030	HOL 60835	✓
11	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60834	✓

Bldg 2-A small Capacitator MCC Door - ADDED BACK to PM 7/9/2013 Per Amy CRAWFORD CJ

BAE SYSTEMS Ordnance Systems Inc.

PM Work Ticket 9/19/2013

Work Order #: 305728
Event # / Description: 246 / 3M - PCB Equipment Inspection
Item # / Description: 2370 / LINE - Area B PCB Equipment Insp
Maintenance Group: LINE - Lineman, Facility Power

Status: Rec'd / Scheduled
Make: n/a
Model: n/a
Cost Center: 1-3400-19253

Equipment Owner: Bright, Michael
Area/Building #: Area B-G - Area B - General Facility
Location: Various (see attached)

Next Due: 10/8/2013
Event Interval: 3
Last Completed:

Identification-1:
Identification-2:
Identification-3:

Typical Hours: 3
Actual Hours: 0
Previous PM-WO #: - 1/1/0001

Previous Notes:	
Specification:	Old PM-123; PCB Qrarterly Inspection Typical Duration: 1 hrs See attached equipment listing.
Request Description:	Visual Inspections.
Maintenance Notes:	

Attachments

EventCheckList.pdf, ID-2370-1.0_-_Area_B_PCB_Checklist.pdf

Maintenance Work Ticket Completion

Completed By: _____ Date: _____

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- **PME-246 – PCB Equipment Inspection**
- **PM-123 – Visual Inspection – PCB Equipment Areas**

NOTES:

Verify contents of the checklist while performing the PM. Note any required updates.

Item	ID	Location (Floor)	Description	Value	Comp	Comments
1	HOL _____	B200 – Precip. Roof	Transformer SN: L495599PMLB Pyranol fluid			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
2	HOL _____	B200 – Precip. Roof	Transformer SN: L495603PMLB Pyranol fluid			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	

Completed on
w/o 305728
9/19/2013

SUMMARY OF CHANGES

n/a	n/a	n/a	Creating new Equipment Item into Preventive Maintenance.Net.

BAE SYSTEMS Ordnance Systems Inc.

PM Work Ticket 9/23/2013

Work Order #: 305727
Event # / Description: 2467 / 3M - PCB Equipment Inspection
Item # / Description: 2401 / LINE - Area A PCB Equipment Insp
Maintenance Group: LINE - Lineman, Facility Power

Status: Rec'd / Scheduled
Make: n/a
Model: n/a
Cost Center: 1-3400-19253

Equipment Owner: Bright, Michael
Area/Building #: Area A - Area A
Location: Various (see attached)

Next Due: 10/8/2013
Event Interval: 3
Last Completed:

Identification-1:
Identification-2:
Identification-3:

Typical Hours: 3
Actual Hours: 0
Previous PM-WO #: - 1/1/0001

Previous Notes:	
Specification:	Old PM-123; PCB Quarterly Inspection Typical Duration: 2 hrs See attached equipment listing.
Request Description:	Visual inspections.
Maintenance Notes:	

Attachments

ID-2401-1.0_-_Area_A_PCB_Checklist.pdf, EventCheckList.pdf

Maintenance Work Ticket Completion

Completed By: _____ Date: _____

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- **PME-246 – PCB Equipment Inspection**
- **PM-123 – Visual Inspection – PCB Equipment Areas**

Verify contents of the checklist while performing the PM. Note any required updates.

Item	ID	Location (Floor)	Description	Value	Comp	Comments
1	SH/JD	Bldg 8A, Ground Floor	Transformer SN: 7146126 Equipment not in service. No power to bldg 8-A.			
			Check PCB labeling legible / intact.		☑	OK
			Check general condition / integrity, signs of leakage.		☑	OK
2	SH/JD	Bldg 8A, East side, storage	(6) Capacitors Surplus / obsolete equipment. Not in service. No power to bldg 8-A.			
			Check PCB labeling legible / intact.		☑	OK
			Check general condition / integrity, signs of leakage.		☑	OK
3	SH/JD	2A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	OK
			Check general condition / integrity, signs of leakage.		☑	OK
4	SH/JD	5A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	OK
			Check general condition / integrity, signs of leakage.		☑	OK
5	SH/JD	6A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	OK
			Check general condition / integrity, signs of leakage.		☑	OK
6	SH/JD	7A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	OK
			Check general condition / integrity, signs of leakage.		☑	OK
7	SH/JD	20A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	OK
			Check general condition / integrity, signs of leakage.		☑	OK

BAE SYSTEMS Ordnance Systems Inc.

PM Work Ticket 12/4/2013

Work Order #: 308324	**Status:** Complete
Event # / Description: 246 / 3M - PCB Equipment Inspection	**Make:** n/a
Item # / Descripiton: 2370 / LINE - Area-B PCB Equipment Insp	**Model:** n/a
Maintenance Group: LINE - Lineman, Facility Power	**Cost Center:** 1-3400-19253
Equipment Owner: Bright, Michael	**Next Due:** 3/4/2014
Area/Building #: Area B-G - Area B - General Facility	**Event Interval:** 3
Location: Various (see attached)	**Last Completed:** 12/4/2013 6:51:27 AM
Identification-1:	**Typical Hours:** 3
Identification-2:	**Actual Hours:** 2
Identification-3:	**Previous PM-WO #:** 308324 - 12/4/2013

Previous Notes:	
Specification:	Old PM-123; PCB Qrarterly Inspection Typical Duration: 1 hrs See attached equipment listing.
Request Description:	Visual inspections.
Maintenance Notes:	

Attachments

EventCheckList.pdf, ID-2370-1.0_-_Area_B_PCB_Checklist.pdf

Maintenance Work Ticket Completion

Completed By: _____ Date: _____

BAE SYSTEMS

Ordnance Systems Inc.

w/o 308324

Event Checklist

Event #: 246
Event Description: 3M - PCB Equipment Inspection
Event Group: Lineman, Facility Power
Month Interval: 3
Work Category: Environmental
Scheduled Hours: 3
Event Next Due Date: 12/19/2013
Event Last Complete Date: 9/19/2013
Event Late Status: 4 - Current

EQ Item ID #:
Equipment Item: LINE - Area-B PCB Equipment Insp
Building: Area B-G - Area B - General Facility
Owner: Bright, Michael
Identification 1:
Identification 2:
Identification 3:
Completion Date:

Notes: Old PM-123; PCB Qrarterly Inspection Typical Duration: 1 hrs

See attached equipment listing.

Check Item Description	Procedure	Complete
Visual Inspections.	Visually inspect the equipment iterms containing PCB contaminated fluid, checking for leakage, gener	✓

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- PME-246 – PCB Equipment Inspection
- PM-123 – Visual Inspection – PCB Equipment Areas

NOTES:

Verify contents of the checklist while performing the PM. Note any required updates.

Item #	ID	Location (Floor)	Description	Value	Comp	Comments
1	HOL _____	B200 – Precip. Roof	Transformer SN: L495599PMLB Pyranol fluid			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
2	HOL _____	B200 – Precip. Roof	Transformer SN: L495603PMLB Pyranol fluid			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	

Complete
12/3/13

SUMMARY OF CHANGES

n/a	n/a	n/a	Creating new Equipment Item into Preventive Maintenance.Net.

PM Work Ticket 6/16/2014

Work Order #:	305728	**Status:**	Complete
Event # / Description:	246 / 3M - PCB Equipment Inspection	**Make:**	n/a
Item # / Descripiton:	2370 / LINE - Area-B PCB Equipment Insp	**Model:**	n/a
Maintenance Group:	LINE - Line Crew	**Cost Center:**	1-3400-19253
Equipment Owner:	Bright, Michael	**Next Due:**	7/29/2014
Area/Building #:	Area B-G - Area B - General Facility	**Event Interval:**	3
Location:	Various (see attached)	**Last Completed:**	4/29/2014 6:31:10 AM
Identification-1:		**Typical Hours:**	3
Identification-2:		**Actual Hours:**	2
Identification-3:		**Previous PM-WO #:**	313404 - 4/29/2014

Previous Notes:	
Specification:	Old PM-123; PCB Qrarterly Inspection Typical Duration: 1 hrs See attached equipment listing.
Request Description:	
Maintenance Notes:	9/19/13 - Boggs - completed this PM/WO and completed checklist.

Attachments

EventCheckList.pdf, ID-2370-1.0_-_Area_B_PCB_Checklist.pdf

Maintenance Work Ticket Completion

Work Order Complete? ☐ Yes ☐ No

Date: _____

BAE SYSTEMS

Ordnance Systems Inc.

Event Checklist

Event #: 246

Event Description: 3M - PCB Equipment Inspection

Event Group: Lineman, Facility Power

Month Interval: 3

Work Category: Environmental

Scheduled Hours: 3

Event Next Due Date: 12/23/2013

Event Last Complete Date: 9/23/2013

Event Late Status: 4 - Current

EQ Item ID #:

Equipment Item: LINE - Area-A PCB Equipment Insp

Building: Area A - Area A

Owner: Bright, Michael

Identification 1:

Identification 2:

Identification 3:

Completion Date:

Notes: Old PM-123; PCB Quarterly Inspection Typical Duration: 2 hrs

See attached equipment listing.

Check Item Description	Procedure	Complete
Visual Inspections.	Visually inspect the equipment iterms containing PCB contaminated fluid, checking for leakage, gener	

Complete
12/4/13
SHAJD

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- PME-246 – PCB Equipment Inspection
- PM-123 – Visual Inspection – PCB Equipment Areas

Verify contents of the checklist while performing the PM. Note any required updates.

Item #	ID	Location (Floor)	Description	Value	Comp	Comments
1		Bldg 8A, Ground Floor	Transformer SN: 7146126 Equipment not in service. No power to bldg 8-A.			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
2		Bldg 8A, East side, storage	(6) Capacitors Surplus / obsolete equipment. Not in service. No power to bldg 8-A.			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
3		2A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
4		5A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
5		6A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
6		7A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
7		20A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	

SUMMARY OF CHANGES

n/a	n/a	n/a	Creating new Equipment Item into Preventive Maintenance.Net.

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description :** Visual Inspection - PCB Equipment / Areas

Next Due Date 1/8/2013 **Last Complete** 10/8/2012 **PM Completion Date:** 1/9/13 **Status** Active **Hours** ___

Due every 3 **mths** **Person Assigned** C.A J.D **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes 8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.

Item	Description	Procedure	Equip#	Comp
1	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	✓
2	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	S/N PLR49861	✓
3	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLE	✓
4	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLE	✓
5	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	✓
6	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	✓
7	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	✓
8	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	✓
9	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	✓
10	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	
11	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60834	

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description :** Visual Inspection - PCB Equipment / Areas

Next Due Date 4/22/2013 **Last Complete** 1/22/2013 **PM Completion Date:** 3/26/13 **Status** Active **Hours** ____

Due every 3 **mths** **Person Assigned** Harper/Alley **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes 8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.

Item	Description	Procedure	Equip#	Comp
1	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	S/N 7146126	✓
2	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use TRANSFORMER SCHEDULED to be REMOVED!	STF 9030	S/N PLR49861	✓
3	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLE	✓
4	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLE	✓
5	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	✓
6	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	✓
7	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	✓
8	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0050	✓
9	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30961	✓
10	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use DOESN'T EXIST	STF 9030	HOL 60835	✓
11	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use DOESN'T EXIST	STF 9030	HOL 60834	✓

PM / Inspection Checklist

PM / INSP# : 123 **Building** Area B-G **PM Description :** Visual Inspection - PCB Equipment / Areas

Next Due Date 6/26/2013 **Last Complete** 3/26/2013 **PM Completion Date:** 7-8-13 **Status** Active **Hours** ____

Due every 3 **mths** **Person Assigned** CA / SB **Procedure** STF 9030

PM Group Lineman, Facility Power **PM Category** Inspection

Notes 8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER.

Item	Description	Procedure	Equip#	Comp
1	**8-A Transformer (7146126)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Not in use	STF 9030	S/N 7146126	✓
2	**12-A Transformer (PLR49861)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use Removed From PM Per Amy CRAWFORD 7/9/2013 CJ Has Been Removed	STF 9030	S/N PLR49861	
3	**Transformer, Precipitator (L495599PMLB) 2150 lLbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495599PMLE	✓
4	**Transformer, Precipitator (L495603PMLB) 2150 Lbs** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	STF 9030	S/N L495603PMLE	✓
5	**5-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0045	✓
6	**6-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0046	✓
7	**7-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use	STF 9030	ID# 0047	✓
8	**20-A Small Capacitator (MCC DOOR)** Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Not in use	STF 9030	ID# 0050	✓
9	**Capacitors (6) (30961)** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use Not in use	STF 9030	HOL 30961	✓
10	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60835	✓
11	**Capacitor B201 Basement** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60834	✓

Bldg 2-A small Capacitator MCC Door - ADDED back to PM 7/9/2013 Per Amy CRAWFORD CJ

BAE SYSTEMS Ordnance Systems Inc.

PM Work Ticket 9/19/2013

Work Order #: 305728
Event # / Description: 246 / 3M - PCB Equipment Inspection
Item # / Description: 2370 / LINE - Area B PCB Equipment Insp
Maintenance Group: LINE - Lineman, Facility Power

Status: Rec'd / Scheduled
Make: n/a
Model: n/a
Cost Center: 1-3400-19253

Equipment Owner: Bright, Michael
Area/Building #: Area B-G - Area B - General Facility
Location: Various (see attached)

Next Due: 10/8/2013
Event Interval: 3
Last Completed:

Identification-1:
Identification-2:
Identification-3:

Typical Hours: 3
Actual Hours: 0
Previous PM-WO #: - 1/1/0001

Previous Notes:	
Specification:	Old PM-123; PCB Qrarterly Inspection Typical Duration: 1 hrs See attached equipment listing.
Request Description:	Visual inspections.
Maintenance Notes:	

Attachments

EventCheckList.pdf, ID-2370-1.0_-_Area_B_PCB_Checklist.pdf

Maintenance Work Ticket Completion

Completed By: _____ **Date:** _____

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- **PME-246 – PCB Equipment Inspection**
- **PM-123 – Visual Inspection – PCB Equipment Areas**

NOTES:

Verify contents of the checklist while performing the PM. Note any required updates.

Item	ID	Location (Floor)	Description	Value	Comp	Comments
1	HOL _____	B200 – Precip. Roof	Transformer SN: L495599PMLB Pyranol fluid			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
2	HOL _____	B200 – Precip. Roof	Transformer SN: L495603PMLB Pyranol fluid			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	

Completed on
w/o 305728
9/19/2013

SUMMARY OF CHANGES

n/a	n/a	n/a	Creating new Equipment Item into Preventive Maintenance.Net.

BAE SYSTEMS Ordnance Systems Inc.

PM Work Ticket 9/23/2013

Work Order #: 305727
Event # / Description: 2467 3M - PCB Equipment Inspection
Item # / Description: 2401 / LINE - Area A PCB Equipment Inspe
Maintenance Group: LINE - Lineman, Facility Power

Equipment Owner: Bright, Michael
Area/Building #: Area A - Area A
Location: Various (see attached)

Identification-1:
Identification-2:
Identification-3:

Status: Rec'd / Scheduled
Make: n/a
Model: n/a
Cost Center: 1-3400-19253

Next Due: 10/8/2013
Event Interval: 3
Last Completed:

Typical Hours: 3
Actual Hours: 0
Previous PM-WO #: - 1/1/0001

Previous Notes:	
Specification:	Old PM-123; PCB Quarterly Inspection Typical Duration: 2 hrs See attached equipment listing.
Request Description:	Visual inspections.
Maintenance Notes:	

Attachments

ID-2401-1.0_-_Area_A_PCB_Checklist.pdf, EventCheckList.pdf

Maintenance Work Ticket Completion

Completed By: _____ Date: _____

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- **PME-246 – PCB Equipment Inspection**
- **PM-123 – Visual Inspection – PCB Equipment Areas**

Verify contents of the checklist while performing the PM. Note any required updates.

Item	ID	Location (Room)	Description	Value	Comp	Comments
1	SH/JD	Bldg 8A, Ground Floor	Transformer SN: 7146126 Equipment not in service. No power to bldg 8-A.			
			Check PCB labeling legible / intact.		☑	OK
			Check general condition / integrity, signs of leakage.		☑	OK
2	SH/JD	Bldg 8A, East side, storage	(6) Capacitors Surplus / obsolete equipment. Not in service. No power to bldg 8-A.			
			Check PCB labeling legible / intact.		☑	OK
			Check general condition / integrity, signs of leakage.		☑	OK
3	SH/JD	2A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	OK
			Check general condition / integrity, signs of leakage.		☑	OK
4	SH/JD	5A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	OK
			Check general condition / integrity, signs of leakage.		☑	OK
5	SH/JD	6A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	OK
			Check general condition / integrity, signs of leakage.		☑	OK
6	SH/JD	7A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	OK
			Check general condition / integrity, signs of leakage.		☑	OK
7	SH/JD	20A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	OK
			Check general condition / integrity, signs of leakage.		☑	OK

BAE SYSTEMS Ordnance Systems Inc.

PM Work Ticket 12/4/2013

Work Order #: 308324	**Status:** Complete
Event # / Description: 246 / 3M - PCB Equipment Inspection	**Make:** n/a
Item # / Descripiton: 2370 / LINE - Area-B PCB Equipment Insp	**Model:** n/a
Maintenance Group: LINE - Lineman, Facility Power	**Cost Center:** 1-3400-19253
Equipment Owner: Bright, Michael	**Next Due:** 3/4/2014
Area/Building #: Area B-G - Area B - General Facility	**Event Interval:** 3
Location: Various (see attached)	**Last Completed:** 12/4/2013 6:51:27 AM
Identification-1:	**Typical Hours:** 3
Identification-2:	**Actual Hours:** 2
Identification-3:	**Previous PM-WO #:** 308324 - 12/4/2013

Previous Notes:	
Specification:	Old PM-123; PCB Qrarterly Inspection Typical Duration: 1 hrs See attached equipment listing.
Request Description:	Visual Inspections.
Maintenance Notes:	

Attachments

EventCheckList.pdf, ID-2370-1.0_-_Area_B_PCB_Checklist.pdf

Maintenance Work Ticket Completion

Completed By: _____ Date: _____

BAE SYSTEMS

Ordnance Systems Inc.

w/o 908324

Event Checklist

Event #: 246

Event Description: 3M - PCB Equipment Inspection

Event Group: Lineman, Facility Power

Month Interval: 3

Work Category: Environmental

Scheduled Hours: 3

Event Next Due Date: 12/19/2013

Event Last Complete Date: 9/19/2013

Event Late Status: 4 - Current

EQ Item ID #:

Equipment Item: LINE - Area-B PCB Equipment Insp

Building: Area B-G - Area B - General Facility

Owner: Bright, Michael

Identification 1:

Identification 2:

Identification 3:

Completion Date:

Notes: Old PM-123; PCB Qrarterly Inspection Typical Duration: 1 hrs

See attached equipment listing.

Check Item Description	Procedure	Complete
Visual Inspections.	Visually inspect the equipment iterms containing PCB contaminated fluid, checking for leakage, gener	✓

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- PME-246 – PCB Equipment Inspection
- PM-123 – Visual Inspection – PCB Equipment Areas

NOTES:

Verify contents of the checklist while performing the PM. Note any required updates.

Item	ID	Location (Floor)	Description	Value	Comp	Comments
1	HOL _____	B200 – Precip. Roof	Transformer SN: L495599PMLB Pyranol fluid			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
2	HOL _____	B200 – Precip. Roof	Transformer SN: L495603PMLB Pyranol fluid			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	

Complete
12/3/13

SUMMARY OF CHANGES

n/a	n/a	n/a	Creating new Equipment Item into Preventive Maintenance.Net.

PM Work Ticket 6/16/2014

Work Order #:	305728	**Status:**	Complete
Event # / Description:	246 / 3M - PCB Equipment Inspection	**Make:**	n/a
Item # / Descripton:	2370 / LINE - Area-B PCB Equipment Insp	**Model:**	n/a
Maintenance Group:	LINE - Line Crew	**Cost Center:**	1-3400-19253
Equipment Owner:	Bright, Michael	**Next Due:**	7/29/2014
Area/Building #:	Area B-G - Area B - General Facility	**Event Interval:**	3
Location:	Various (see attached)	**Last Completed:**	4/29/2014 6:31:10 AM
Identification-1:		**Typical Hours:**	3
Identification-2:		**Actual Hours:**	2
Identification-3:		**Previous PM-WO #:**	313404 - 4/29/2014

Previous Notes:

Specification: Old PM-123; PCB Qrarterly Inspection Typical Duration: 1 hrs

See attached equipment listing.

Request Description:

Maintenance Notes: 9/19/13 - Boggs - completed this PM/WO and completed checklist.

Attachments

EventCheckList.pdf, ID-2370-1.0_-_Area_B_PCB_Checklist.pdf

Maintenance Work Ticket Completion

Work Order Complete? ☐ Yes ☐ No Date: _____

BAE SYSTEMS

Ordnance Systems Inc.

Event Checklist

Event #: 246

Event Description: 3M - PCB Equipment Inspection

Event Group: Lineman, Facility Power

Month Interval: 3

Work Category: Environmental

Scheduled Hours: 3

Event Next Due Date: 12/23/2013

Event Last Complete Date: 9/23/2013

Event Late Status: 4 - Current

EQ Item ID #:

Equipment Item: LINE - Area-A PCB Equipment Insp

Building: Area A - Area A

Owner: Bright, Michael

Identification 1:

Identification 2:

Identification 3:

Completion Date:

Notes: Old PM-123; PCB Quarterly Inspection Typical Duration: 2 hrs

See attached equipment listing.

Check Item Description	Procedure	Complete
Visual Inspections.	Visually inspect the equipment iterms containing PCB contaminated fluid, checking for leakage, gener	

Complete
12/4/13
SHAJO

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- PME-246 – PCB Equipment Inspection
- PM-123 – Visual Inspection – PCB Equipment Areas

Verify contents of the checklist while performing the PM. Note any required updates.

Item #	ID	Location (Floor)	Description	Value	Comp	Comments
1		Bldg 8A, Ground Floor	Transformer SN: 7146126 Equipment not in service. No power to bldg 8-A.			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
2		Bldg 8A, East side, storage	(6) Capacitors Surplus / obsolete equipment. Not in service. No power to bldg 8-A.			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
3		2A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
4		5A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
5		6A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
6		7A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
7		20A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	

SUMMARY OF CHANGES

n/a	n/a	n/a	Creating new Equipment Item into Preventive Maintenance.Net.

PCB INVENTORY – DECEMBER 31, 2013
HOLSTON ARMY AMMUNITION PLANT

EQUIPMENT TYPE	CODE	SERIAL NUMBER	CLASSIFICATION	Fluid Type	VOLUME (gal)	WEIGHT (kg)	PCB CONC. (ppm)	EQUIPMENT LOCATION
Transformer	TR	L495599PMLB	Full PCB	Pyranol	82	446.9	>500	200, boiler#1
Transformer	TR	L495603PMLB	Full PCB	Pyranol	82	446.9	>500	200, boiler#2
Transformer	TR	7146126	Full PCB	Pyranol	258	1406.1	>500	8A, elect Rm
Transformer-REMOVED*	TR	PLR49861	Contaminated PCB; Never operated after PCBX treatment so it could not be reclassified.*		3244	17679.8	63	12A
6 Capacitors	CA	HOL#30961	Large	Pyranol	9	49.1	>500	8A, elect. Rm.
SM Capacitor	X		Small	Pyranol	ND		>500	2A, MCC
SM Capacitor	X	ID#0045	Small	Pyranol	ND		>500	5A, MCC
SM Capacitor	X	ID#0046	Small	Pyranol	ND		>500	6A, MCC
SM Capacitor	X	ID#0047	Small	Pyranol	ND		>500	7A, MCC
SM Capacitor	X	ID#0050	Small	Pyranol	ND		>500	20A, MCC
				TOTAL	3675	20028.8		

ND = Not detectable

TRANSFORMERS RECLASSIFIED AS NON-PCB

EQUIPMENT TYPE	CODE	SERIAL NUMBER	CLASSIFICATION	Fluid Type	VOLUME (Gals.)	PCB CONC. (ppm)	EQUIPMENT LOCATION
Transformer	TR	F962786	Formerly classified as contaminated PCB; Unit reclassified as non-PCB		610 gal	Previously 158 prior to PCBX; Reclassified as non-PCB (10 ppm PCBs)	11A
Transformer	TR	3164568	Formerly classified as contaminated PCB; Unit reclassified as non-PCB		423 gal	Previously 54 ppm prior to PCBX; Reclassified as non-PCB (0.71 ppm PCBs)	5A
Transformer-REMOVED*	TR	PLR49861	Contaminated PCB; Never operated after PCBX treatment so it could not be reclassified.*		3244gal	63	12A

*Note: Oil was removed from Transformer PLR49861 on February 25, 2013 for reclamation, and the transformer itself was removed on June 19, 2013 for recycling of metal components.

PCB ITEMS IN STORAGE
JANUARY 1, 2013 – DECEMBER 31, 2013
HOLSTON ARMY AMMUNITION PLANT

Equipment Type	Serial No.	Removed From	Date Removed	Date Stored	Stored at Bldg.	Vol. (Gals.)	Total Kg.	New Drum (Y/N)	Drum No.	Comments
None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

PCB ITEMS DISPOSED
JANUARY 1, 2013 – DECEMBER 31, 2013
HOLSTON ARMY AMMUNITION PLANT

Equipment Type	Serial No.	Removed From	Date Removed	Date Stored	Stored at Bldg.	Vol. (Gals.)	Total Wt.(kg)	Date Shipped	Date Disposed
Transformer	PLR49861	12A	See below	N/A	12A (equipment location)	3244	See below	See below	See below

- Clean Harbors removed the oil from the transformer on February 25, 2013, the date the transformer was removed from service. Approximately 500 gallons remained in the transformer. The oil was received at the Clean Harbors Tucker, Georgia facility on March 11, 2013 and the oil was reclaimed on March 12, 2013. Weight of this oil shipment was 9205 kg.
- Clean Harbors removed the transformer from Building 12A on June 19, 2013. The transformer was received at the Clean Harbors Twinsburg, Ohio facility on June 20, 2013. The transformer was decommissioned on July 19, 2013 (the oil was removed for reclamation or disposal and the metal was recycled). Weight of the remaining oil and transformer was 18181 kg.

Manifests and Certificates of Disposal from Clean Harbors

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) GA5020174-007 SC PPW 3/2/2011 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	TN5210020421	1	(800) 483-3718	004800103 FLE

5. Generator's Name and Mailing Address
Bae Systems Ordnance Systems
4509 West Stone Drive
Kingsport, TN 37660
Generator's Phone: (423) 470-4699 Paul Bailey

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: Clean Harbors Environmental Services Inc — U.S. EPA ID Number: MAD039322250

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

8. Designated Facility Name and Site Address: Clean Harbors PPM LLC, 1875 Forge Street, Tucker, GA 30084 — U.S. EPA ID Number: GAD980839187
Facility's Phone: (770) 934-0902

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON DOT REGULATED MATERIAL. (<1 LB PCB)	01	TT	9180	K	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. [illegible]
PPM DH1 EST volume 2300 OSD 2-25-13

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

Generator's/Offeror's Printed/Typed Name: T. Paul Bailey — Signature: T. Paul Bailey — Month 12 Day 12 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Rick Hendry — Signature: [signature] — Month 12 Day 23 Year 13
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

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

1.	2.	3.	4.
H039			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: David P Campbell — Signature: [signature] — Month 1 Day 31 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. 30000890 DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

Clean Harbors Environmental Services
1875 Forge Street
Tucker, GA 30084
www.cleanharbors.com

March 15, 2013

Paul Bailey
Bae Systems Ordinance Systems
4509 WestStone Drive
Kingsport, TN 37660

RE: Sales Order #: GA5020174

Dear Mr. Bailey:

Enclosed please find a signed copy of your shipping document, which indicates acceptance of your waste at our Clean Harbors PPM facility in Tucker, Georgia.

Shipping Document Number: 004800103FLE

Date Received: 3/11/13

In accordance with 40 CFR 264.12(b), Clean Harbors PPM, LLC-Tucker Facility has the appropriate state and federal permits to accept, store, and/or treat the waste you shipped to our facility. This letter should be kept on file with your copy of the signed manifest.

We appreciate your business. If you have any questions, please contact me at (770) 934-0902 x 6562.

Sincerely,

Carol Ramsay
Compliance Guard

Enclosure(s)

Clean Harbors PPM LLC
1875 Forge Street
Tucker GA, 30084
GAD980839187
(770) 934-0902

CERTIFICATE OF DISPOSAL

Generator Facility Name:	Bae Systems Ordinance Systems	Sales Order#:	GA5062006
Generator Address:	4509 West Stone Drive Kingsport, TN, 37660	Date Received:	3/11/2013
Generator Contact Name:			

Generator EPA ID:	TN5210020421	Load #:	
		Manifest #:	004800103FLE

Original CH ID #	Date Removed From Service	Unit Type	Serial # / Customer ID	Material Description	Disposal Date	Method of Disposal	Disposal Facility
30000880	2/25/2013	TT	004800103FLE /	PCB Liquids For Dechlorination (<500PPM)	3/12/2013	Oil Reclamation	PPM - Tucker, GA Facility

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

Michael Golden
Authorized Agent

Tuesday, April 02, 2013
Date

2700 #s 9205 Kgs

Final CO For This Manifest

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) GA5473763 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
TN5210020421	1	800-483-3718	004803260 FLE

GENERATOR

5. Generator's Name and Mailing Address
Bae Systems Ordinance Systems
4509 West Stone Drive
Kingsport, TN 37660
Generator's Phone: 423-470-1699 Paul Bailey

Generator's Site Address (if different than mailing address)
SAME

6. Transporter 1 Company Name
Clean Harbors Environmental Services Inc

U.S. EPA ID Number
MAD039322250

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors PPM LLC
1672 East Highland Road, Twinsburg, OH 44087
Facility's Phone: 330-425-3825

U.S. EPA ID Number
OHD986975399

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON DOT REGULATED MATERIAL (< 1 LB PCB)	01	TM	1881	K	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. DSOT

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

Generator's/Offeror's Printed/Typed Name: Michael Bright | Signature: Michael Bright | Month 6 | Day 19 | Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Dick Hondorp | Signature | Month 6 | Day 19 | Year 13
Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

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

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Amanda Debuski | Signature | Month 09 | Day 20 | Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

3195581

Clean Harbors
1672 East Highland Road
Twinsburg, OH
330-425-3825
Fax 330-487-5784
www.cleanharbors.com

MR. MICHAEL BRIGHT
BAE SYSTEMS ORDINANCE SYSTEMS
4509 WEST STONE DRIVE
KINGSPORT, TN 37660

MR. BRIGHT:

Enclosed you will find signed copies of your shipping documents, which indicates acceptance of your waste at our Clean Harbors PPM facility in Twinsburg, OH.

004800260FLE RECEIVED 06/20/13

In accordance with 40 CFR 264.12(b), Clean Harbors PPM, LLC-Twinsburg Facility has the appropriate state and federal permits to accept, store, and/or treat the waste you shipped to our facility. This letter should be kept on file with your copy of the signed manifest.

We appreciate your business. If you have any questions, please contact me at (330) 425-3825.

Sincerely,

Shantanu S. Pahi

Shantanu S. Pahi

Facility General Manager

Enclosures

Clean Harbors PPM LLC
1672 East Highland Road
Twinsburg OH, 44087
OHD986975399
(330) 425-3825

CERTIFICATE OF DISPOSAL

Generator Contact Name:		Sales Order #:	GA5473767
Generator Facility Name:	Bae Systems Ordinance Systems	Date Received:	6/20/2013
Generator Address:	4509 West Stone Drive Kingsport, TN 37660		
Generator EPA ID:	TN5210020421	Manifest #:	004800260FLE

Line #	Profile/Description	Disposal Date	Method of Disposal	Disposal Facility
1	PPMD80T TRANSFORMER <50 ppm FOR RECLAMATION	7/19/2013	Decommission	Twinsburg, OH Facility

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

Name: Robert D. Wells

Title: VP Environmental Applications

Date: Tuesday, July 30, 2013

Page 1 of 1

BAE SYSTEMS

Ordnance Systems Inc.

Holston Army Ammunition Plant
4509 West Stone Drive
Kingsport, TN 37660-9982

EPA Identification Number: TN 5210020421

PCB Annual Document Log
January 1, 2014 – December 31, 2014

Prepared by: Environmental and Electrical Departments
Submitted by: Environmental Department

2014 PCB Transformer Quarterly Inspections

w/o 310498
2/4/14

ID-2401
Area A – PCB Checklist

VERSION: 1.0

EFFECTIVE
7-24-13

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- PME-246 – PCB Equipment Inspection
- PM-123 – Visual Inspection – PCB Equipment Areas

Verify contents of the checklist while performing the PM. Note any required updates.

1		Bldg 8A, Ground Floor	Transformer SN: 7146126 Equipment not in service. No power to bldg 8-A.			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
2		Bldg 8A, East side, storage	(6) Capacitors Surplus / obsolete equipment. Not in service. No power to bldg 8-A.			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
3		2A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
4		5A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
5		6A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
6		7A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
7		20A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	

File Windows Help

Create New Work Order | Search Work Orders

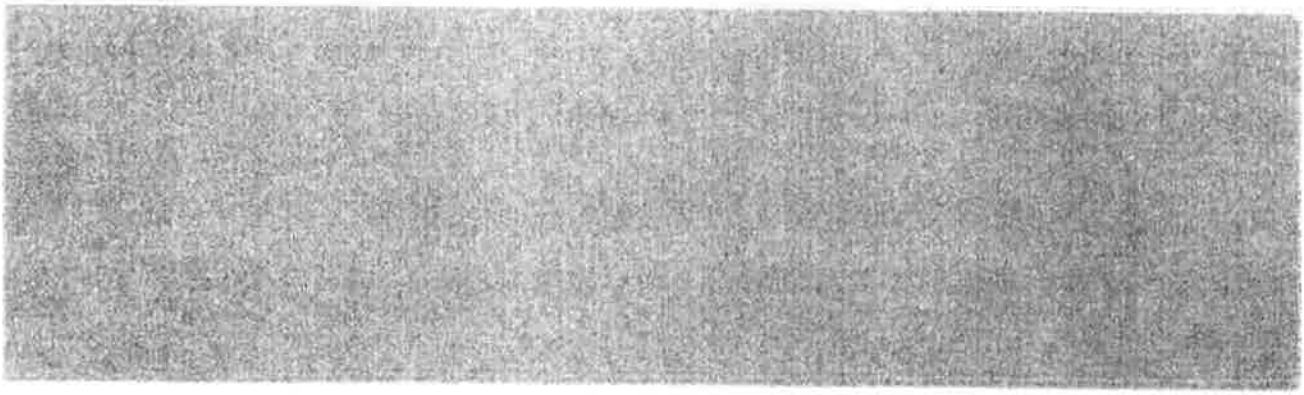
Work Order Number:	310497		
Work Order Title:	PM: 3M - PCB Equipment Inspection		
Requestor:	Charlotte Johnston	HOL/BAE Number:	
Point of Contact:		Equipment:	LINE - Area-B PCB Equipment Insp
Cost Center:	1-3400-19253 - 16-20: ELECTRICAL IN	PDD:	
Area/Building:	Area B-G - Area B - General Facility	Maintenance Group:	LINE - Line Crew
Location:	Various (see attached)	Estimated Hours:	3
Work Category:	Environmental	Actual Hours:	4
Status:	Complete	Estimated Materials ($):	0
Date Submitted:	1/27/2014	Date Desired:	
Date Promised:	3/4/2014 6:51 AM	Date Completed:	2/7/2014
Requires PCEC:	No	Focused Area:	False
		Completed By:	Boggs_JE

Visual inspections.

Requestor Notes:

Note: Completed checklist is unavailable; however, the completion date in the work order system shows the inspection was conducted on 2/7/14.

Maintenance Notes:



Attachments:

File Name	Last Modified
EventCheckList....	1/27/2014 6:48:...
ID-2370-1.0_-_Ar...	8/5/2013 9:07:0...

w/o 313253

ID-2401
Area A – PCB Checklist

VERSION: 1.0

Completed 4/29/14 SH/SD M. Fry

EFFECTIVE 7-24-13

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- **PME-246 – PCB Equipment Inspection**
- **PM-123 – Visual Inspection – PCB Equipment Areas**

Verify contents of the checklist while performing the PM. Note any required updates.

1		Bldg 8A, Ground Floor	Transformer SN: 7146126 Equipment not in service. No power to bldg 8-A.			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
2		Bldg 8A, East side, storage	(6) Capacitors Surplus / obsolete equipment. Not in service. No power to bldg 8-A.			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
3		2A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
4		5A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
5		6A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
6		7A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
7		20A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	

w/o 313404

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- **PME-246 – PCB Equipment Inspection**
- **PM-123 – Visual Inspection – PCB Equipment Areas**

NOTES:

Verify contents of the checklist while performing the PM. Note any required updates.

1	HOL _____	B200 – Precip. Roof	Transformer SN: L495598PMLB Pyranol fluid		✓	
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
2	HOL _____	B200 – Precip. Roof	Transformer SN: L495603PMLB Pyranol fluid		✓	
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	

W/O 316607 SH/CA

ID-2401
Area A – PCB Checklist

7/24/2014

VERSION: 1.0

EFFECTIVE 7-24-13

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- **PME-246 – PCB Equipment Inspection**
- **PM-123 – Visual Inspection – PCB Equipment Areas**

Verify contents of the checklist while performing the PM. Note any required updates.

1		Bldg 8A, Ground Floor	Transformer SN: 7146126 Equipment not in service. No power to bldg 8-A.	OK	✓	
			Check PCB labeling legible / intact.	OK	☑	
			Check general condition / integrity, signs of leakage.	OK	☑	
2		Bldg 8A, East side, storage	(6) Capacitors Surplus / obsolete equipment. Not in service. No power to bldg 8-A.	OK	✓	
			Check PCB labeling legible / intact.	OK	☑	
			Check general condition / integrity, signs of leakage.	OK	☑	
3		2A, MCC door	Capacitor	OK	✓	
			Check PCB labeling legible / intact.	OK	☑	
			Check general condition / integrity, signs of leakage.	OK	☑	
4		5A, MCC door	Capacitor			
			Check PCB labeling legible / intact.	OK	☑	
			Check general condition / integrity, signs of leakage.	OK	☑	
5		6A, MCC door	Capacitor			
			Check PCB labeling legible / intact.	OK	☑	
			Check general condition / integrity, signs of leakage.	OK	☑	
6		7A, MCC door	Capacitor			
			Check PCB labeling legible / intact.	OK	☑	
			Check general condition / integrity, signs of leakage.	OK	☑	
7		20A, MCC door	Capacitor			
			Check PCB labeling legible / intact.	OK	☑	
			Check general condition / integrity, signs of leakage.	OK	☑	

316606
7/24/2014
SH/CA

ID-2370
Area B – PCB Checklist

VERSION: 1.0

EFFECTIVE
7-24-13

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- PME-246 – PCB Equipment Inspection
- PM-123 – Visual Inspection – PCB Equipment Areas

NOTES:

Verify contents of the checklist while performing the PM. Note any required updates.

1	HOL_____	B200 – Precip. Roof	Transformer SN: L495589PMLB Pyranol fluid			
			Check PCB labeling legible / intact.	OK	☑	
			Check general condition / integrity, signs of leakage.	OK	☑	
2	HOL_____	B200 – Precip. Roof	Transformer SN: L495603PMLB Pyranol fluid			
			Check PCB labeling legible / intact.	OK	☑	
			Check general condition / integrity, signs of leakage.	OK	☑	

WO#: 320234 Completed By: CA BC Date: 11-29-14

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- PME-246 – PCB Equipment Inspection
- PM-123 – Visual Inspection – PCB Equipment Areas

Verify contents of the checklist while performing the PM. Note any required updates.

Item #	Equip ID	Location (Floor)	Description	Value	Comp	Comments
1		Bldg 8A, Ground Floor	Transformer SN: 7146126 Equipment not in service. No power to bldg 8-A.		✓	
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
2		Bldg 8A, East side, storage	(6) Capacitors Surplus / obsolete equipment. Not in service. No power to bldg 8-A.		✓	
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
3		2A, MCC door	Capacitor		✓	
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
4		5A, MCC door	Capacitor		✓	
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
5		6A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☐	
			Check general condition / integrity, signs of leakage.		☐	
6		7A, MCC door	Capacitor		✓	
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
7		20A, MCC door	Capacitor		✓	
			Check PCB labeling legible / intact.		☑	

			Check general condition / integrity, signs of leakage.		☑	

WO#: 320235 Completed By: CA BC Date: 10-29-14

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- **PME-246 – PCB Equipment Inspection**
- **PM-123 – Visual Inspection – PCB Equipment Areas**

NOTES:

Verify contents of the checklist while performing the PM. Note any required updates.

Item #	Equip ID	Location (Floor)	Description	Value	Comp	Comments
1	HOL_____	B200 – Precip. Roof	Transformer SN: L495599PMLB Pyranol fluid		✓	
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
2	HOL_____	B200 – Precip. Roof	Transformer SN: L495603PMLB Pyranol fluid		✓	
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	

PCB INVENTORY – DECEMBER 31, 2014
HOLSTON ARMY AMMUNITION PLANT

EQUIPMENT TYPE	CODE	SERIAL NUMBER	CLASSIFICATION	Fluid Type	VOLUME (gal)	WEIGHT (kg)	PCB CONC. (ppm)	EQUIPMENT LOCATION
Transformer	TR	L495599PMLB	Full PCB	Pyranol	82	446.9	>500	200, boiler#1
Transformer	TR	L495603PMLB	Full PCB	Pyranol	82	446.9	>500	200, boiler#2
Transformer	TR	7146126	Full PCB	Pyranol	258	1406.1	>500	8A, elect Rm
Transformer-REMOVED*	TR	PLR49861	Contaminated PCB; Never operated after PCBX treatment so it could not be reclassified.*		3244	17679.8	63	12A
6 Capacitors	CA	HOL#30961	Large	Pyranol	9	49.1	>500	8A, elect. Rm.
SM Capacitor	X		Small	Pyranol	ND		>500	2A, MCC
SM Capacitor	X	ID#0045	Small	Pyranol	ND		>500	5A, MCC
SM Capacitor	X	ID#0046	Small	Pyranol	ND		>500	6A, MCC
SM Capacitor	X	ID#0047	Small	Pyranol	ND		>500	7A, MCC
SM Capacitor	X	ID#0050	Small	Pyranol	ND		>500	20A, MCC
				TOTAL	**3675**	**20028.8**		

ND = Not detectable

TRANSFORMERS RECLASSIFIED AS NON-PCB

EQUIPMENT TYPE	CODE	SERIAL NUMBER	CLASSIFICATION	Fluid Type	VOLUME (Gals.)	PCB CONC. (ppm)	EQUIPMENT LOCATION
Transformer	TR	F962786	Formerly classified as contaminated PCB; Unit reclassified as non-PCB		610 gal	Previously 158 prior to PCBX; Reclassified as non-PCB (10 ppm PCBs)	11A
Transformer	TR	3164568	Formerly classified as contaminated PCB; Unit reclassified as non-PCB		423 gal	Previously 54 ppm prior to PCBX; Reclassified as non-PCB (0.71 ppm PCBs)	5A

PCB ITEMS IN STORAGE
JANUARY 1, 2014 – DECEMBER 31, 2014
HOLSTON ARMY AMMUNITION PLANT

Equipment Type	Serial No.	Removed From	Date Removed	Date Stored	Stored at Bldg.	Vol. (Gals.)	Total Kg.	New Drum (Y/N)	Drum No.	Comments
None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

PCB ITEMS DISPOSED
JANUARY 1, 2014 – DECEMBER 31, 2014
HOLSTON ARMY AMMUNITION PLANT

Equipment Type	Serial No.	Removed From	Date Removed	Date Stored	Stored at Bldg.	Vol. (Gals.)	Total Wt.(kg)	Date Shipped	Date Disposed
None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

BAE SYSTEMS

Ordnance Systems Inc.

Holston Army Ammunition Plant
4509 West Stone Drive
Kingsport, TN 37660-9982

EPA Identification Number: TN 5210020421

PCB Annual Document Log
January 1, 2014 – December 31, 2014

Prepared by: Environmental and Electrical Departments
Submitted by: Environmental Department

2014 PCB Transformer Quarterly Inspections

w/o 310498
2/4/14

ID-2401
Area A – PCB Checklist

VERSION: 1.0

EFFECTIVE 7-24-13

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- PME-246 – PCB Equipment Inspection
- PM-123 – Visual Inspection – PCB Equipment Areas

Verify contents of the checklist while performing the PM. Note any required updates.

1		Bldg 8A, Ground Floor	Transformer SN: 7146126 Equipment not in service. No power to bldg 8-A.			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
2		Bldg 8A, East side, storage	(6) Capacitors Surplus / obsolete equipment. Not in service. No power to bldg 8-A.			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
3		2A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
4		5A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
5		6A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
6		7A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
7		20A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	

Create New Work Order Search Work Orders

Work Order Number:	310497		
Work Order Title:	PM: 3M - PCB Equipment Inspection		
Requestor:	Charlotte Johnston	HOL/BAE Number:	
Point of Contact:		Equipment:	LINE - Area-B PCB Equipment Insp
Cost Center:	1-3400-19253 - 16-20: ELECTRICAL IN	PDD:	
Area/Building:	Area B-G - Area B - General Facility	Maintenance Group:	LINE - Line Crew
Location:	Various (see attached)	Estimated Hours:	3
Work Category:	Environmental	Actual Hours:	4
Status:	Complete	Estimated Materials ($):	0
Date Submitted:	1/27/2014	Date Desired:	
Date Promised:	3/4/2014 6:51 AM	Date Completed:	2/7/2014
Requires PCEC:	No	Focused Area:	False
		Completed By:	Boggs_JE

Visual inspections.

Requestor Notes:

Note: Completed checklist is unavailable; however, the completion date in the work order system shows the inspection was conducted on 2/7/14.

Maintenance Notes:

[redacted]

Attachments:

File Name	Last Modified
EventCheckList....	1/27/2014 6:48:...
ID-2370-1.0_-_Ar...	8/5/2013 9:07:0...

w/o 313253

ID-2401
Area A – PCB Checklist

VERSION: 1.0

Completed 4/24/14 5/1/30 M. Fry

EFFECTIVE 7-24-13

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- **PME-246 – PCB Equipment Inspection**
- **PM-123 – Visual Inspection – PCB Equipment Areas**

Verify contents of the checklist while performing the PM. Note any required updates.

1		Bldg 8A, Ground Floor	Transformer SN: 7146126 Equipment not in service. No power to bldg 8-A.			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
2		Bldg 8A, East side, storage	(6) Capacitors Surplus / obsolete equipment. Not in service. No power to bldg 8-A.			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
3		2A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
4		5A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
5		6A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
6		7A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
7		20A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	

w/o 313404

ID-2370
Area B – PCB Checklist

VERSION: 1.0

Complete update 5/1/30

EFFECTIVE 7-24-13

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- **PME-246 – PCB Equipment Inspection**
- **PM-123 – Visual Inspection – PCB Equipment Areas**

NOTES:

Verify contents of the checklist while performing the PM. Note any required updates.

1	HOL _____	B200 – Precip. Roof	Transformer SN: L495598PMLB Pyranol fluid		✓	
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
2	HOL _____	B200 – Precip. Roof	Transformer SN: L495603PMLB Pyranol fluid		✓	
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	

W/O 316607 SH/CA

ID-2401
Area A – PCB Checklist

7/24/2014

VERSION: 1.0

EFFECTIVE 7-24-13

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- **PME-246 – PCB Equipment Inspection**
- **PM-123 – Visual Inspection – PCB Equipment Areas**

Verify contents of the checklist while performing the PM. Note any required updates.

1		Bldg 8A, Ground Floor	Transformer SN: 7146126 Equipment not in service. No power to bldg 8-A.	OK	✓	
			Check PCB labeling legible / intact.	OK	☑	
			Check general condition / integrity, signs of leakage.	OK	☑	
2		Bldg 8A, East side, storage	(6) Capacitors Surplus / obsolete equipment. Not in service. No power to bldg 8-A.	OK	✓	
			Check PCB labeling legible / intact.	OK	☑	
			Check general condition / integrity, signs of leakage.	OK	☑	
3		2A, MCC door	Capacitor	OK	✓	
			Check PCB labeling legible / intact.	OK	☑	
			Check general condition / integrity, signs of leakage.	OK	☑	
4		5A, MCC door	Capacitor			
			Check PCB labeling legible / intact.	OK	☑	
			Check general condition / integrity, signs of leakage.	OK	☑	
5		6A, MCC door	Capacitor			
			Check PCB labeling legible / intact.	OK	☑	
			Check general condition / integrity, signs of leakage.	OK	☑	
6		7A, MCC door	Capacitor			
			Check PCB labeling legible / intact.	OK	☑	
			Check general condition / integrity, signs of leakage.	OK	☑	
7		20A, MCC door	Capacitor			
			Check PCB labeling legible / intact.	OK	☑	
			Check general condition / integrity, signs of leakage.	OK	☑	

316606
7/24/2014
SH/CA

ID-2370
Area B – PCB Checklist

VERSION: 1.0

EFFECTIVE
7-24-13

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- PME-246 – PCB Equipment Inspection
- PM-123 – Visual Inspection – PCB Equipment Areas

NOTES:

Verify contents of the checklist while performing the PM. Note any required updates.

1	HOL_____	B200 – Precip. Roof	Transformer SN: L495599PMLB Pyranol fluid			
			Check PCB labeling legible / intact.	OK	☑	
			Check general condition / integrity, signs of leakage.	OK	☑	
2	HOL_____	B200 – Precip. Roof	Transformer SN: L495603PMLB Pyranol fluid			
			Check PCB labeling legible / intact.	OK	☑	
			Check general condition / integrity, signs of leakage.	OK	☑	

WO#: 320234 Completed By: CA BC Date: 11-29-14

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- PME-246 – PCB Equipment Inspection
- PM-123 – Visual Inspection – PCB Equipment Areas

Verify contents of the checklist while performing the PM. Note any required updates.

Item #	Equip ID	Location (Floor)	Description	Value	Comp	Comments
1		Bldg 8A, Ground Floor	Transformer SN: 7146126 Equipment not in service. No power to bldg 8-A.		✓	
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
2		Bldg 8A, East side, storage	(6) Capacitors Surplus / obsolete equipment. Not in service. No power to bldg 8-A.		✓	
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
3		2A, MCC door	Capacitor		✓	
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
4		5A, MCC door	Capacitor		✓	
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
5		6A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		☐	
			Check general condition / integrity, signs of leakage.		☐	
6		7A, MCC door	Capacitor		✓	
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
7		20A, MCC door	Capacitor		✓	
			Check PCB labeling legible / intact.		☑	

			Check general condition / integrity, signs of leakage.		☑	

WO#: 320235 Completed By: CA BC Date: 10-29-14

Copies of this checklist permitted to collect field data and check-off tasking as completed. Copies are to be printed from the PM Work Order attachment to ensure the current version is utilized during execution of the PM.

REFERENCES:

- **PME-246 – PCB Equipment Inspection**
- **PM-123 – Visual Inspection – PCB Equipment Areas**

NOTES:

Verify contents of the checklist while performing the PM. Note any required updates.

Item #	Equip ID	Location (Floor)	Description	Value	Comp	Comments
1	HOL_____	B200 – Precip. Roof	Transformer SN: L495599PMLB Pyranol fluid		✓	
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	
2	HOL_____	B200 – Precip. Roof	Transformer SN: L495603PMLB Pyranol fluid		✓	
			Check PCB labeling legible / intact.		☑	
			Check general condition / integrity, signs of leakage.		☑	

PCB INVENTORY – DECEMBER 31, 2014
HOLSTON ARMY AMMUNITION PLANT

EQUIPMENT TYPE	CODE	SERIAL NUMBER	CLASSIFICATION	Fluid Type	VOLUME (gal)	WEIGHT (kg)	PCB CONC. (ppm)	EQUIPMENT LOCATION
Transformer	TR	L495599PMLB	Full PCB	Pyranol	82	446.9	>500	200, boiler#1
Transformer	TR	L495603PMLB	Full PCB	Pyranol	82	446.9	>500	200, boiler#2
Transformer	TR	7146126	Full PCB	Pyranol	258	1406.1	>500	8A, elect Rm
Transformer-REMOVED*	TR	PLR49861	Contaminated PCB; Never operated after PCBX treatment so it could not be reclassified.*		3244	17679.8	63	12A
6 Capacitors	CA	HOL#30961	Large	Pyranol	9	49.1	>500	8A, elect. Rm.
SM Capacitor	X		Small	Pyranol	ND		>500	2A, MCC
SM Capacitor	X	ID#0045	Small	Pyranol	ND		>500	5A, MCC
SM Capacitor	X	ID#0046	Small	Pyranol	ND		>500	6A, MCC
SM Capacitor	X	ID#0047	Small	Pyranol	ND		>500	7A, MCC
SM Capacitor	X	ID#0050	Small	Pyranol	ND		>500	20A, MCC
				TOTAL	**3675**	**20028.8**		

ND = Not detectable

TRANSFORMERS RECLASSIFIED AS NON-PCB

EQUIPMENT TYPE	CODE	SERIAL NUMBER	CLASSIFICATION	Fluid Type	VOLUME (Gals.)	PCB CONC. (ppm)	EQUIPMENT LOCATION
Transformer	TR	F962786	Formerly classified as contaminated PCB; Unit reclassified as non-PCB		610 gal	Previously 158 prior to PCBX; Reclassified as non-PCB (10 ppm PCBs)	11A
Transformer	TR	3164568	Formerly classified as contaminated PCB; Unit reclassified as non-PCB		423 gal	Previously 54 ppm prior to PCBX; Reclassified as non-PCB (0.71 ppm PCBs)	5A

PCB ITEMS IN STORAGE
JANUARY 1, 2014 – DECEMBER 31, 2014
HOLSTON ARMY AMMUNITION PLANT

Equipment Type	Serial No.	Removed From	Date Removed	Date Stored	Stored at Bldg.	Vol. (Gals.)	Total Kg.	New Drum (Y/N)	Drum No.	Comments
None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

PCB ITEMS DISPOSED
JANUARY 1, 2014 – DECEMBER 31, 2014
HOLSTON ARMY AMMUNITION PLANT

Equipment Type	Serial No.	Removed From	Date Removed	Date Stored	Stored at Bldg.	Vol. (Gals.)	Total Wt.(kg)	Date Shipped	Date Disposed
None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Holston Army Ammunition Plant, Area B, Pad-Mounted Transformers

Transformer Number	Status	Manufacturer	PCB	Serial Number	Size KVA	Comments	Date of Manufacture
G-231-TX	InService		No	959000052	1500		
G-T2-TX	InService	Vantran Electric	No	88V4145	750	On nameplate: Mineral oil	1988
H-200-TX	InService	Cooper Power Systems	No	759002590	2500	On nameplate: PCB content less than 1 ppm at time of manufacture	11/2007
H-231-TX	InService	Cooper Power Systems	No	959000051	1500	On nameplate: PCB content less than 1 ppm at time of manufacture	1/2009
H-259-TX	InService	Cooper Power Systems	No	950003887	300	On nameplate: PCB content less than 1 ppm at time of manufacture	4/2009
H-320-TX	InService	Cooper Power Systems	No	0950009436	300	On nameplate: PCB content less than 1 ppm at time of manufacture	10/2009
H-339-TX2	InService	Westinghouse	No	72J310153	75	Instruction book 46-060-1 (listed on nameplate) - specifies transformer was filled or processed at the factory with non-PCB dielectric fluid and the non-PCB fluid contained less than 1 ppm at the time of processing or filling.	1972
H-341-TX	InService	Cooper Power Systems	No	750010142	500	On nameplate: PCB content less than 1 ppm at time of manufacture	5/2007
I-200-TX	InService	Cooper Power Systems	No	759002589	2500	On nameplate: PCB content less than 1 ppm at time of manufacture	11/2007
J-351-TX	InService	Cooper Power Systems	No	1250014477	500	On nameplate: PCB content less than 1 ppm at time of manufacture	12/2012
J-A2B-TX	InService	Cooper Power Systems	No	1150012524	150	On nameplate: PCB content less than 1 ppm at time of manufacture	10/2011
J-B3-TX	InService	Westinghouse	No	3164584	500	Type S L Transformer, 3 Phase, Oil Insulated, Self Cooled, instruction book 5094, no markings about PCBs or manufacturing date; old analytical results indicate < 7 ppm PCB	
K-262-TX	InService	Westinghouse	PCB-contaminated	3164525	300	Type S L Transformer, 3 Phase, Oil Insulated, Self Cooled, instruction book 5094, no markings about PCBs or manufacturing date; old analytical results show 122 ppm PCB	
K-A2B-TX	InService	Cooper Power Systems	No	1150012525	150	On nameplate: PCB content less than 1 ppm at time of manufacture	10/2011
K-B3-TX	InService	Westinghouse	No	3164584	500	Type S L Transformer, 3 Phase, Oil Insulated, Self Cooled, instruction book 5094, no markings about PCBs or manufacturing date; old analytical results indicate < 7 ppm PCB	
L-238-TX	InService	Westinghouse	No	87JD904228	500	On nameplate: Filled with non-PCB mineral oil that contained less than 1 ppm at time of manufacture	1987

Transformer Number	Status	Manufacturer	PCB	Serial Number	Size KVA	Comments	Date of Manufacture
M-400-TX	InService	Cooper	No	951023246	25	On nameplate: Non-PCB mineral oil - When manufactured contained less than 1 ppm PCB	3/1995
M-L1M-TX	InService	Cooper Power Systems	No	0850006464	500	On nameplate: PCB content less than 1 ppm at time of manufacture	4/2008
M-N3A-TX	InService	Cooper Power Systems	No	750003100	500	On nameplate: PCB content less than 1 ppm at time of manufacture	2/2007
MPT 1	InService	Westinghouse	No	3164403	7500	Three phase, Type SL-AB Transformer, Oil Insulated, Self Cooled, See Instruction book 361556-543	
MPT 2	InService	Westinghouse	No	3164404	7500	Three phase, Type SL-AB Transformer, Oil Insulated, Self Cooled, See Instruction book 361556-543; old analytical results indicate < 50 ppm PCB	
MPT 3	InService	Westinghouse	No	3164405	7500	Three phase, Type SL-AB Transformer, Oil Insulated, Self Cooled, See Instruction book 361556-543	
N-G10A-TX	InService	Vantran Electric	No	88V4129	225	On nameplate: Mineral oil filled; Sticker: No PCBs, Filled with no PCB dielectric fluid, Less than 1 ppm at time of manufacture	1988
N-G10A-TZ	InService	Vantran Electric	No	88V4128	225		1988
N-I10M-TX	InService	General Electric	No	Q524405-TVM	300	On nameplate: Contains no detectable PCB at time of manufacture	8/1997
N-I4-TX	InService	Moloney	No	710790	100	no markings about PCBs or manufacturing date on nameplate	
N-I6-TX	InService	Cooper Power Systems	No	750009856	150	On nameplate: PCB content less than 1 ppm at time of manufacture	5/2007
N-K5-TX	InService	Moloney	No	710781	100	no information about PCBs or manufacturing date on nameplate; old analytical results indicate < 7 ppm PCB	
N-L4-TX	InService	ABB	No	98J520194	150	Filled with non-PCB mineral oil that contained less than 1 ppm PCB at time of manufacture	2/1998
N-M4-TX	InService	Cooper Power Systems	No	1150005514	300	On nameplate: PCB content less than 1 ppm at time of manufacture	5/2011
N-M6-TX	InService	Vantran Electric	No	88V4120	150	On nameplate: Mineral oil	1988
N-M8-TX	InService	Cooper Power Systems	No	1050012362	150	On nameplate: PCB content less than 1 ppm at time of manufacture	12/2010
N-N4-TX1	InService	ABB	No	05J363040	300	On nameplate: Filled with non-PCB mineral oil that contained less than 1 ppm PCB at time of manufacture	8/2005
N-N8-TX	InService	Cooper Power Systems	No	1050012364	150	On nameplate: PCB content less than 1 ppm at time of manufacture	12/2010

Transformer Number	Status	Manufacturer	PCB	Serial Number	Size KVA	Comments	Date of Manufacture
O-C5-TX	InService	Westinghouse	No	3163829	200	S Transformer, 3 Phase, 60 Cycles, Instruction book 5922, style 80R295, no PCB markings, no manufacturing date; instruction book details use of Wemco "C" oil; old analytical results show 9 ppm PCB	
O-I5-TX	InService	Cooper Power Systems	No	750011026	150	On nameplate: PCB content less than 1 ppm at time of manufacture	5/2007
O-I5/J5-TX	InService	Moloney	No	710785	150	old analytical results show 8 ppm PCB	
O-I7-J7-TX	NotInService	Moloney	No	710788	100	no information about PCBs or manufacturing date on nameplate; old analytical results indicate < 7 ppm PCB	
O-J3-TX	InService	Moloney	No	710794	100	no information about PCBs or manufacturing date on nameplate; old analytical results indicate < 7 ppm PCB	
O-L3-TX	InService	Moloney	No	710778	100	no information about PCBs or manufacturing date on nameplate; old analytical results indicate < 7 ppm PCB	
O-L5(1)-TX	InService	Cooper Power Systems	No	750009859	225	On nameplate: PCB content less than 1 ppm at time of manufacture	5/2007
O-L7-N7-TX	NotInService	Moloney	No	710792	100	no information about PCBs or manufacturing date on nameplate; old analytical results indicate < 7 ppm PCB	
O-M5-TX	InService	Cooper Power Systems	No	750009858	225	On nameplate: PCB content less than 1 ppm at time of manufacture	5/2007
O-N3-TX	InService	Westinghouse	No	89J401091	300	On nameplate: Mineral oil filled; Filled with non-PCB mineral oil that contained less than 1 ppm at time of manufacture	5/1989
O-N5-TX1	InService	Cooper Power Systems	No	0750011026	150	On nameplate: PCB content less than 1 ppm at time of manufacture	5/2007
O-N7-TX	InService	Cooper Power Systems	No	1050012363	150	On nameplate: PCB content less than 1 ppm at time of manufacture	12/2010
P-C3-TX	InService	Westinghouse	No	3163825	200	S Transformer, 3 Phase, 60 Cycles, instruction book 5922, style 30R295, no markings about PCBs, no manufacturing date; old analytical results indicate < 7 ppm PCB	
P-C7-TX	InService	Westinghouse	No	3163809	200	S Transformer, 3 Phase, 60 cycles, instruction book 5922, style 80R295, no markings about PCBs, no manufacturing date; instruction book details use of Wemco "C" oil; old analytical results show 15 ppm PCB	
P-D7-TX	NotInService	Vantran Electric	No	88V4133	300	On nameplate: Mineral oil	1988
P-D8-TX	NotInService	Vantran Electric	No	88V4136	750	On nameplate: Mineral oil	1988

Transformer Number	Status	Manufacturer	PCB	Serial Number	Size KVA	Comments	Date of Manufacture
P-E3-TX	InService	Cooper Power Systems	No	1050012404	300	On nameplate: PCB content less than 1 ppm at time of manufacture	12/2010
P-E4-TX	InService	Westinghouse	No	3163819	200	S Transformer, 3 Phase, 60 Cycles, Instruction book 5922, no PCB markings, no manufacturing date marked; instruction book details use of Wemco "C" oil; old analytical results show 7 ppm PCB	
P-E7-TX	InService	Cooper Power Systems	No	1150010088	1500	On nameplate: PCB content less than 1 ppm at time of manufacture	9/2011
P-E8-TX	InService	Westinghouse	No	3163823	200	S Transformer, 3 Phase, 60 Cycles, Instruction book 5922, style 80R295, no PCB markings, no manufacturing date; instruction book details use of Wemco "C" oil; old analytical results show 9 ppm PCB	
P-G3-TX	InService	Vantran Electric	No	88V4122	200	On nameplate: Mineral oil filled; Sticker: No PCBs, Filled with no PCB dielectric fluid, Less than 1 ppm at time of manufacture	1988
P-G4-TX	InService	Westinghouse	No	3163805	200	S Transformer, 3 Phase, 60 Cycles, Instruction book 5922, Style 80R295 (clearest one on nameplates), no markings for PCBs or manufacturing date; instruction book details use of Wemco "C" oil; old analytical results show 7 ppm PCB	
P-G7-TX	InService	Square D Company	No	880761	500	On nameplate: Non-PCB Oil, Less than 1 ppm PCB	
P-G8-TX	InService	Square D Company	No	870583-B1	500	Instruction book 43404-401-38	
P-H4-TX	InService	Cooper Power Systems	No	1050012368	225	On nameplate: PCB content less than 1 ppm at time of manufacture	12/2010
P-H7-TX	InService	Cooper Power Systems	No	1050012366	225	On nameplate: PCB content less than 1 ppm at time of manufacture	12/2010
Q-C6-TX	InService	Westinghouse	No	3163830	200	S Transformer, 3 Phase, 80 Cycles, Instruction book 5922, Style 30R295; instruction book details use of Wemco "C" oil; no manufacturing date or PCB markings	
Q-C9-TX	NotInService	Westinghouse	No	3163821	200	S Transformer, 3 Phase, 60 Cycles, Instruction book 5922, instruction book details use of Wemco "C" oil, no markings for PCBs or manufacturing date; old analytical results indicate < 7 ppm PCB	
Q-D2-TX	InService	Moloney	No	710784	100	no markings for PCB or manufacturing date on nameplate; old analytical results show 7 ppm PCB	
Q-D6-TX	InService	Westinghouse	No	3164581	500	3 Phase, Type SL Transformer, Oil Insulated Self Cooled, Instruction Book 5094; no manufacturing date or PCB/no PCB marking; old analytical results indicate < 50 ppm PCB	

Transformer Number	Status	Manufacturer	PCB	Serial Number	Size KVA	Comments	Date of Manufacture
Q-D9-TX	NotInService	Westinghouse	No	3164519	300	Fill transformer with "Wemco C" oil, 3 Phase, Type SL Transformer, Oil Insulated, Self Cooled; old analytical results show 9 ppm PCB	
Q-D10-TX	InService	ABB	No	06J625144	750	On nameplate: Contains mineral oil with no detectable level of PCB, less than 1 ppm, at the time of manufacture	9/2006
Q-D5-TX	InService	Square D Company	No	871137-A1	1500	On nameplate: Non-PCB Oil	3/1988
Q-E2-TX	InService	Westinghouse	No	3164515	300	Fill transformer with "Wemco C" oil, 3 Phase, Type SL Transformer, Oil Insulated, Self Cooled; old analytical results show 29 ppm PCB	
Q-E6-TX	InService	Cooper Power Systems	No	1050012403	300	On nameplate: PCB content less than 1 ppm at time of manufacture	12/2010
Q-E9-TX	NotInService		No		300		
Q-E10-TX	InService	Vantran Electric	No	88V4144	750	On nameplate: Mineral oil	1988
Q-G2-TX	InService	Westinghouse	No	3521859	200	S Transformer, 3 Phase, 60 Cycles, Style 83RW428, instruction book 5922, no PCB markings, no manufacturing date shown	
Q-G5-TX	InService	Vantran Electric	No	88V4125	225	On nameplate: Mineral oil	1988
Q-G6-TX	InService	Westinghouse	No	3163811	200	S Transformer, 3 Phase, 60 Cycles, instruction book 5922, instruction book details use of Wemco "C" oil, Style 80R295, no markings for PCBs or manufacturing date	
Q-G10-TX	InService	Square D Company	No	890560-A1	1500	On nameplate: Non-PCB oil contains less than 1 ppm of PCB fluid at time of manufacture	2/1990
Q-H5-TX	InService	Cooper Power Systems	No	1050012369	225	On nameplate: PCB content less than 1 ppm at time of manufacture	12/2010
Q-H6-TX	InService	ABB	No	04J095354	225	On nameplate: Filled with non-PCB mineral oil that contained less than 1 ppm PCB at time of manufacture	7/2004
R-302(1)-TX	InService	Westinghouse	No	3164513	300	Fill transformer with "Wemco C" oil; Type S L transformer, 3 phase, oil insulated, self cooled, instruction book 5094; old analytical results show 25 ppm PCB	
R-302(2)-TX	NotInService	Westinghouse	No	SDT6145-0101	5000	Type RSL, Oil Insulated Substation Transformer, Class OA, Insuldur Insulation, Instruction book PS-1002	12/1990
R-334-TX	InService	Vantran Electric	No	88V4137	225	On nameplate: Mineral oil; Sticker: No PCBs, Filled with no PCB dielectric fluid, Less than 1 ppm at time of manufacture	1988
R-B5-TX	InService		No		500		
S-B3-TX	InService	Cooper Power Systems	No	1250004770	1000	On nameplate: PCB content less than 1 ppm at time of manufacture	4/2012

Transformer Number	Status	Manufacturer	PCB	Serial Number	Size KVA	Comments	Date of Manufacture
S-B5-TX	InService		No		500		
T-124-TX	InService		No		25		
T-150-TX	InService	Cooper Power Systems	No	1050012428	500	On nameplate: PCB content less than 1 ppm at time of manufacture	12/2010
T-155-TX	InService	ABB	No	04J170322	500	On nameplate: Filled with non-PCB mineral oil that contained less than 1 ppm PCB at time of manufacture	11/2004
T-201(2)-TX	InService	Cooper Power Systems	No	1159001454	3000	On nameplate: PCB content less than 1 ppm at time of manufacture	8/2011
T-201-TX	InService	Cooper Power Systems	No	1050012360	150	On nameplate: PCB content less than 1 ppm at time of manufacture	12/2010
T-232-TX	InService	Westinghouse	No	81JB386105	1000	On nameplate: Mineral oil	1981
T-234-TX	InService	Cooper Power Systems	No	1050012405	500	On nameplate: PCB content less than 1 ppm at time of manufacture	12/2010
T-235E-TX	InService	Cooper Power Systems	No	1050012431	750	On nameplate: PCB content less than 1 ppm at time of manufacture	12/2010
T-235B-TX	InService	Westinghouse	No	95J982269	2500		1995
T-235-TX	InService	Westinghouse	No	TAT2486-0108	2500	Instruction book PM 1000, 3 Phase Type RSL Oil Insulated Plazapad Transformer, Class OA, Insuldur Insulation	3/1981
U-150-TX	InService	Cooper Power Systems	No	1050012429	500	On nameplate: PCB content less than 1 ppm at time of manufacture	12/2010
U-201(2)-TX	InService	Cooper Power Systems	No	1159001466	150	On nameplate: PCB content less than 1 ppm at time of manufacture	8/2011
U-201-TX	InService	Cooper Power Systems	No	1050012361	3000	On nameplate: PCB content less than 1 ppm at time of manufacture	12/2010
U-203(2)-TX	InService	Cooper Power Systems	No	976002692	1500	On nameplate: When manufactured contained less than 1 ppm PCB's	11/1997
U-203-TX	InService	Cooper Power Systems	No	0750009950	300	On nameplate: PCB content less than 1 ppm at time of manufacture	5/2007
U-221-TX	NotInService		No		1000		
U-232-TX	InService	Westinghouse	No	81JB386177	1000	On nameplate: Mineral oil	1981
U-234-TX	InService	Cooper	No	0037016991	500	On nameplate: When manufactured contained less than 1 ppm PCB's	10/2000
U-235B-TX	InService	ABB	No	95J981384	2500	On nameplate: Filled with non-PCB mineral oil that contained less than 1 ppm PCB at time of manufacture	11/1995
U-235E-TX	InService	Cooper Power Systems	No	illegible	750	On nameplate: PCB content less than 1 ppm at time of manufacture	
U-235-TX	InService	Westinghouse	No	TAT2486-0101	2500	Instruction book PM 1000, 3 Phase Type RSL Oil Insulated Plazapad Transformer, Class OA, Insuldur Insulation	3/1981

Transformer Number	Status	Manufacturer	PCB	Serial Number	Size KVA	Comments	Date of Manufacture
W-8-TX	InService	ABB	No	03J782168	500	On nameplate: Filled with non-PCB mineral oil that contained less than 1 ppm PCB at time of manufacture	04/2003
W-100-TX	InService		No		1000		
W-151-TX	InService	Vantran Electric	No	74V2334	750	Mineral oil filled, instruction book V-100	
W-155-TX	InService	ABB	No	04J170304	500	On nameplate: Filled with non-PCB mineral oil that contained less than 1 ppm PCB at time of manufacture	11/2004
W-156-TX	InService	General Electric	No	L710404TMLA	500		12/1975
W-163-TX	InService		No		300		
X-155-TX	InService	VTC West	No	465000A009W-SRWL477A-RWL477A	500	On nameplate: Mineral oil Type II	12/2008
X-262-TX	Unknown	Vantran Electric	No	88V4139	300	On nameplate: Mineral oil	1988
X-334-TX	InService	Cooper	No	959005239	225	On nameplate: When manufactured contained less than 1 ppm PCB's	10/1995
X-352B-TX	Unknown		No		750		
X-363-TX	Unknown	Cooper Power Systems	No	1359000252	1500	On nameplate: PCB content less than 1 ppm at time of manufacture	1/2013
X-B3-TX	InService	Cooper Power Systems	No	1250004769	1000	On nameplate: PCB content less than 1 ppm at time of manufacture	4/2012
X-B5-TX	InService		No		500		
X-B11-TX	InService		No		500		
X-D2-TX	Abandoned	Vantran Electric	No	88V4130	225	On nameplate: Mineral oil	1988
X-D3-TX	NotInService	Vantran Electric	No	88V4127	225	On nameplate: Mineral oil	1988
X-D5-TX	InService	Vantran Electric	No	88V4140	500	On nameplate: Mineral oil filled ; Sticker: No PCBs, Filled with no PCB dielectric fluid, Less than 1 ppm at time of manufacture	1988
X-D6-TX	NotInService	Vantran Electric	No	88V4111	112	On nameplate: Mineral oil	1988
X-D7-TX	InService	Vantran Electric	No	88V4123	225	On nameplate: Mineral oil	1988
X-D8-TX	NotInService	Square D Company	No	870583-A1	300	Instruction book 43404-401-38	1/1988
X-D9-TX	NotInService	Vantran Electric	No	88V4124	225	On nameplate: Mineral oil	1988
X-D10-TX	NotInService	ABB	No	04J169218	300	On nameplate: Filled with non-PCB mineral oil that contained less than 1 ppm PCB at time of manufacture	11/2004
X-E2-TX	InService	Vantran Electric	No	88V4113	112	On nameplate: Mineral oil	1988
X-E8-TX	InService	Vantran Electric	No	88V4114	112	On nameplate: Mineral oil; Sticker: No PCBs, Filled with no PCB dielectric fluid, Less than 1 ppm at time of manufacture	1988
X-G5-TX	InService		No		225		
X-G10A-TX	InService	Vantran Electric	No	88V4119	150	On nameplate: Mineral oil	1988
X-G10-TX	InService	Vantran Electric	No	88V4116	150	On nameplate: Mineral oil	1988

Transformer Number	Status	Manufacturer	PCB	Serial Number	Size KVA	Comments	Date of Manufacture
X-G2-TX	Abandoned	Vantran Electric	No	88V4121	150	On nameplate: Mineral oil	1988
X-G3-TX	InService	Vantran Electric	No	88V4118	150	On nameplate: Mineral oil	1988
X-G4-TX	InService	Vantran Electric	No	88V4135	300	On nameplate: Mineral oil	1988
X-G6-TX	InService	Vantran Electric	No	88V4126	225	On nameplate: Mineral oil	1988
X-G7-TX	InService	Vantran Electric	No	88V4115	150	On nameplate: Mineral oil	1988
X-G8-TX	InService	Vantran Electric	No	88V4148	150	On nameplate: Mineral oil	1988
X-H4-TX	InService	Cooper Power Systems	No	1050012367	225	On nameplate: PCB content less than 1 ppm at time of manufacture	12/2010
X-H5-TX	InService	Cooper Power Systems	No	1050012369	225	On nameplate: PCB content less than 1 ppm at time of manufacture	12/2010
X-H7-TX	InService	Cooper Power Systems	No	1050012365	225	On nameplate: PCB content less than 1 ppm at time of manufacture	12/2010
X-I10M-TX	InService	Vantran Electric	No	88V4110	75	On nameplate: Mineral Oil; Sticker: No PCBs, Filled with no PCB dielectric fluid, Less than 1 ppm at time of manufacture	1988
B-200, #1 Precipitator, A	InService		No				
B-200, #1 Precipitator, B	InService		No				
B-200, #1 Precipitator, C	InService		Yes	L495599PMLB		Nameplate indicates PCBs	
B-200, #2 Precipitator, A	NotInService		No				
B-200, #2 Precipitator, B	NotInService		No				
B-200, #2 Precipitator, C	NotInService		Yes	L495603PMLB		Nameplate indicates PCBs	