

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:

Lleigh 4h V & James	10/21/15
Elizabeth Warner-Inspector; Fed ID #10736	Date
J. Franklin/ white 4	10/21/18
Pamela Franklin - Reviewer; Fed ID #10561	Date
adriance Shit	10/21/15
Adrianne White - Program Manager; Fed ID #TN-4220	Date

TABLE OF CONTENTS

I. OPENING CONFERENCE

II. BACKGROUND

- A. Date of inspection
- B. Facility name, address, and phone number
- C. Is company a subsidiary of another company?
- D. Inspector(s) present
- E. Facility representatives present
- F. Type of facility and Operations performed; manufactured/facility function; and processes and/or equipment used
- G. Age and ownership history of site
- H. Any PCBs/PCB-containing equipment used at site currently or in the past
 - III. PCB AUTHORIZED USES
 - A. Transformers
 - B. Capacitors
 - C. Other electrical equipment
 - D. Heat transfer systems
 - E. Hydraulic systems
 - IV. STORAGE FOR REUSE
 - V. STORAGE FOR DISPOSAL
 - VI. DISPOSAL & SPILLS
 - VII. WASTE OIL
 - VIII. RECORDKEEPING
 - IX. FINDINGS AND POTENTIAL NON-COMPLIANCE ISSUES

ATTACHMENTS

ATTACHMENT I EPA Inspection Forms

ATTACHMENT II PCB Inspection Checklist

ATTACHMENT III Site Photos

ATTACHMENT IV Receipt of Documents Form

ATTACHMENT V Inspection Correspondence Received from Amy

Crawford

ATTACHMENT VI Manifest and Certificates of Disposal From Amy

Crawford

ATTACHMENT VII PCB Annual Document Logs From Amy Crawford

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.

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

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

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

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

<u>Subpart B 40 CFR 761.35 (a) (2):</u> 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.

<u>Subpart J 40 CFR 761.218 (a) (2)</u> 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
- o Building debris such as:
- Wood
- Pipina
- 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 reclassified 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	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	Rem 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 20480

TOXIC SUBSTANCES CONTROL ACT

NOTICE OF INSPECTION

	NOTICE OF I	NOT ECTION					
1. INVESTIGATION IDENTIFICATION:		3. FACILITY NAME					
DATE INSPECTION NO. 31-0815-11ANP-01	DAILY SEQ. NO.	Holston ARMY Ammunition Plant					
William R Snoo	ces Program, TDEC Igrass, TN Tower rks Ave, 14th Fl 17243	4. FACILITY ADDRESS 4509 WEST STELLE DE KINGSPERT, TN					
For Internal EPA use. Copies may be provide	ed to recipient as acknow	edgment of this notice.					
	REASON FOR	RINSPECTION					
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 (c	heck appropriate blocks):	*					
A. Financial data	D. Per	rsonnel data					
B. Sales data	☐ E. Re	search data					
C. Pricing data		'					
The nature and extent of inspection of such	n data specified in A throu	gh E above is as follows:					
INSPECTOR'S SIGNATURE Senabel	Moune	RECIPIENT'S SIGNATURE					
NAME Elizabath Warner	U	NAME William Shellon					
TITLE EC 1	DATE SIGNED \$\ 3\						
EPA FORM 7740-3 (REVISED JULY 1997)	CORE TSCA - PREVIO	US 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	n that
DATE INSPECTION I	NO. DAILY SEQ. NO.	,	
31.085-HAN	}·2		
3. INSPECTOR ADDRESS: Toxic Substances	Program TDFC	4. COMPANY ADDRESS:	\a'
William R Snodgra	ss, TN Tower	4504 (Dest STOLE L	V.
312 Rosa L. Parks Nashville, TN 3724	3	Kingsperi, TW	
For internal EPA use. Copies of this form mag		acknowledgment of TSCA Confidential documents of xic Substances Control Act.	lescribed below
		FIDENTIAL BUSINESS INFORMATION	
NO.		DESCRIPTION	
		2	
	The same of the sa		
	7		
	The state of the s		

INSPECTOR SIGNATURE		CLAIMANT SIGNATURE	
NAME		NAME	
Pamela R Franklin			
	DATE SIGNED	TITLE	DATE SIGNED
EM3	3113115	1116	

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

TOXIC SUBSTANCES CONTROL ACT

TSCA INSPECTION CONFIDENTIALITY NOTICE

1. INVESTIGATION IDENTIFICATION	4. FACILITY NAME		
DATE INSPECTION NO. DAILY SEQ. NO.	Holston Army Ammunition Plant		
2. INSPECTOR'S NAME Elizabeth Warner	5. ADDRESS ASCY LUCST Stone 1972 Kingstyn 771		
3. INSPECTOR ADDRESS Toxic Substances Program, TDEC William R Snodgrass, TN Tower 312 Rosa L. Parks Ave, 14th Fl Nashville, TN 37243	8. NAME OF CHIEF EXECUTIVE OFFICER 7. TITLE		
For internal EPA use. Copies may be provided to recipient as acknowledgmen	t 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.	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: 9726		
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:	Attanta, 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		
 Your company has taken measures to protect the confidentiality of the information and it intends to continue to take such measures. 	system unless and until a claim is made.		
TO BE COMPLETED BY FACILITY OFFICIAL RECEIVING THIS NOTICE 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 WWWW &	NAME		
NAME MI CHELLE BAILLY TLE CONTRACT MANAGEV DATE SIGNED	Ø15TITLE		
TLE CONTRACT MANAGEV DATE SIGNED EDA FORM 7740-4 (Revised July 1997) PREVIOUS VERSIONS	ADDRESS		

ATTACHMENT II 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.

insp	pection.
II. <u>BACKO</u>	GROUND
A. Dat B. Fac	e of inspection Aug 13 2015 ility name, address and phone number: AP 4509 W Stone DR KingSport TW
	dress of company headquarters, if located elsewhere :
	he company a subsidiary of another? If so get name and address of parent company and e of acquisition.
D. Insp	pector(s) present: S. Day / P. FRANKLIN/E Warner
E. Fac	ility representative(s) present, include title(s): Ree at tacked when in
F. Typ	to e 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. Ag	e and ownership history of site: 1942 (S. Army
H. Do	es the facility currently have or has it ever had PCBs/PCB-containing equipment?
I. PC	B Activity: Generate Store for reuse, Disposal, ommercial storage, Disposal, Transporter, Other
	Items: <u>Articles</u> -contact and non-contact (transformers), Containers – contact w/ PCBs, <u>Article</u> niners – no contact PCBs, <u>Equipment</u> – 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

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

assume Electrical Equipment manufactured after 7/2/79 is Non-PCB.
t assume PCB-contaminated if the date of mfg of Mineral Oil equipment is unknown. Must assume PCB-ssformer if manufactured prior to 7/2/79 with> 31bs fluid other than mineral oil where PCB concentration not emined 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?
2. Do any PCB Transformers pose an exposure risk to food or feed? \(\subseteq \subseteq \)
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?
4. Were PCB-Transformers in use registered with EPA by 12/28/98? MYKNOWN
5. Have any PCB-Contaminated Transformers been discovered to be PCB-Transformers after 12/28/98? ON THAT IST BY INVENDING 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?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?
Within 5 meters of a PCB Transformer enclosure?
Within 5 meters of a PCB Transformer?

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

2

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

10.	Have there	been an	y fires	involving	PCB-Transfo	rmers?	1
10.	IIII TO TITOTO	occii an	, 11100	m, or mg	1 02 11411010		1

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

11. Do Quarterly PCB-Transformer inspection records include:

	9
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?

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

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

15. Were any leaking PCB or PCB-Contaminated Transformers observed?

16. Have any Mineral Oil-containing Transformer been tested and found to be >500 ppm PCB?

B. Capacitors (§761.30(1))

Use conditions: Use of PCB-Large Capacitors after 10/1/88 is prohibited except for:

- 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 in³ has < 3 lbs fluid

*Must assume Capacitor with total volume > 200 in³has > 3 lbs fluid.

*May assume Capacitor with total volume > 100 in^3 but < 200 in^3 is < 31bs fluid if total weight of Capacitor is < 91bs.

- 1. 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"?
- 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?

b. # PCB contaminated____

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

D. Heat transfer systems (Note: found most often in chemical industry):

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:

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

1. Ally not on-based systems used:	ii 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. <u>STORAGE FOR REUSE</u> (§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. $\wedge \wedge$

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. <u>STORAGE FOR DISPOSAL (</u>§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 or 25 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, wh	
Manifests, Bills of Lading, CDs	_
1. Liquids:	
INCOME PERSONAL PROPERTY OF THE PROPERTY OF TH	
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	

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2	PC	\mathbf{D}^{\prime}	~~	mte	3111	OTO
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a. Type of Container & Contents	
b. Quantity & weight(s)	
c. Date(s)	
d. Manifest #(5) (if no manifest, not	
who transported and who disposed	
e. Certificate(s) of Disposal	
	## (not req. for bulk: waste) psal sposer on are collectively called 'annual records', and the made on or after 2/5/90; therefore. If there have been any
isposals since 2/5/90, do they have the required many	
C. Ever have any PCB spills? If so, pro	vide the following information: MetSpiles
Source	
When	
Quantity of PCB involved	
Cleaned up per §761 Subpart G?	
When	
By whom	
How debris disposed*	
Clean-up report prepared?	- V

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	X
oil burner?	
Is burner unit a "qualified incinerator" as defined	6
under §761.3? Type of burner?	
Have any PCB-contaminated waste oils (50-500	
ppm) been shipped to a commercial	
storage/disposal facility?	<i>Q</i>
Have any PCB-contaminated waste oils (50-500	. ,)
ppm) been sold for fuel or burned in a high	A
efficiency boiler?	
Are bulk storage tanks used for waste oils	
containing <50 ppm PCB?	
Is an SPCC plan available for < 50 ppm PCB	D
bulk storage tanks?	d
Are bulk storage tanks labeled? (These tanks	3
must labeled if the PCB concentration is	
unknown or >50 ppm.)	7
Are in-out records (date amount) available for	2
bulk storage tanks? §761.65(c)(8)	
Have PCB fluids (>500 ppm) ever been added to	
bulk storage tanks?	8
Have PCB-contaminated fluids (50-500 ppm)	
ever been added to <50 ppm PCB bulk storage	
tanks?	~

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 $2/6/90 - 12/21/90$	
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	
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	
Days ADI 11-4 the regions manifest grapher for all	
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).

Holston Army Ammunition Plant Notes

- 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
 - o Bldg 200 (steam plant) 2 present, supposedly uncharged, but at least one was live
 - o Pump Room determined to have no PCBs present
 - o Bldg 122 PCB storage area
- Bldg 200 (steam plant)
 - o 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.

Holston Army Ammunition Plant Notes

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.

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Close-out conference

- Inspectors requested the following items
 - o Inventory of pole and pad-mounted PCB transformers on site
 - o Disposal records of the 5-6 steam room transformers that occurred in the past
 - o Inspection logs for PCB storage area
 - o 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

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CSWAB

CITIZENS FOR SAFE WATER AROUND BADGER
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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. 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. 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.

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. 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

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.

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. 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". 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

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.

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. 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. 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.

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 ug/kg, exceeding the EPA Region 9 Residential Preliminary Remedial Goal (PRG) of 220 ug/kg and "right at" the EPA Region 9 Industrial PRG of 740 ug/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.

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 TSCAregulated 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 <u>immediately</u> 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,

aura 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

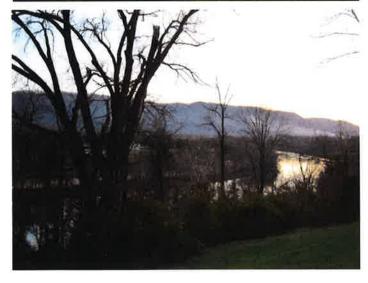
Jane Williams, California Communities Against Toxics

Mark & Connie Toohey

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

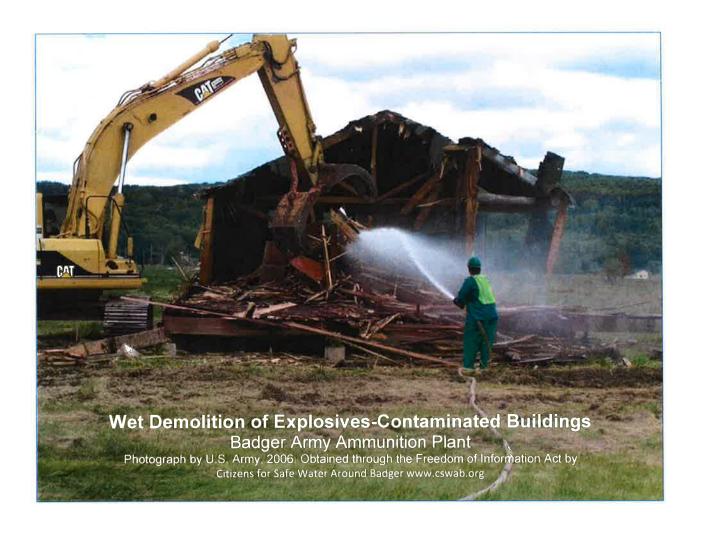












ATTACHMENT III SITE PHOTOS

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



3



Burn Pile North Side

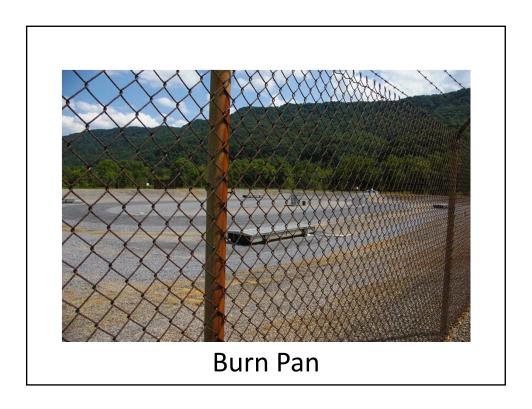


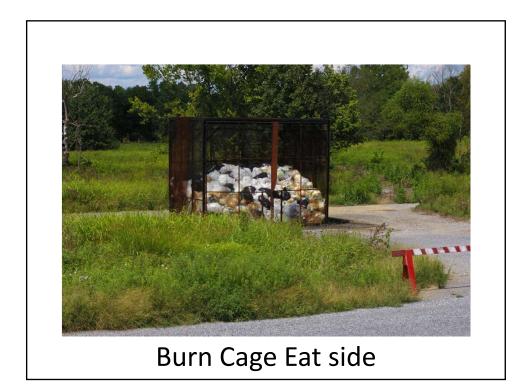


Burn Pile close up Northside lead based paint pipe pile



Burn Pile North 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



CAUTION
PCBs
PpCBs
PpCBs
PpcBstptp1
PpCBs
PpcBstptp1
Pp



Bldg 20 A capacitor inside switch gear





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

RECEIPT FOR DOCUMENTS							
1. INVESTIGATION IDENTIFICATION:			2. COMPANY NAME				
DATE	INSPECTION NO.	DAILY SEQ. NO.	Holston ARMY Ammunition Plant				
8113115	37-6815-HAAD - CR		Contact Person:				
3. INSPECTOR ADD	ORESS Toxic Substance William R Snods 312 Rosa L. Parl Nashville, TN 37	4. COMPANY ADDRESS 4509 WET STONE OR KINGSTONE, 710					
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						
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	Strange Sor Rouse Lowbrain 18/8/15 TRANSFORMER LAW						
	1.57 1/9/15						
OPTIONAL: DUPLICATE COPIES: REQUESTED AND PROVIDED V NOT REQUESTED							
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TITLE EC 1		DATE	TITLE GAVERONMONTHE DATE				
		MM200000 8/13/15					
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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

CONFIDENTIALITY NOTICE: The information in the attached communication is confidential, is intended solely for the addressee, includes proprietary items. If you are not the intended recipient, any disclosure, copying, distribution or any action taken or omitted to be taken in reliance on it, is prohibited and may be unlawful. If you have received this communication in error, please notify the sender and shred any paper copies. If you are not the intended recipient you may not retain, copy or use this communication for any purpose. If you are the intended recipient you should not disclose all or any part of the contents to any other person, except in accordance with all applicable nondisclosure and confidentiality agreements. Sender reserves all intellectual property rights in this communication, including but not limited to copyrights, trade secrets, patents and trademarks as applicable.

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

300v dc surge
200mfd
non polar

Specs:

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
То	Elizabeth Warner; Adrianne White; Stephanie N. Day
Sent	Tuesday, September 01, 2015 4:18 PM
Attachments	PD=
	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

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 <u>TDEC's Customer</u> <u>Service Survey</u>

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

*** This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email - OIR-Security. ***

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

Kingsport, TN 37660 Phone: 423-578-6417 Cell: 423-782-7871 Fax: 423-578-6329

4509 West Stone Drive

 $\underline{amy.crawford@baesystems.com}$

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

antanu & Pahi

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

Facility General Manager

Enclosures



Clean Harbors Environmental Services 1875 Forge Street Tucker, QA 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)

1875 Forge Street, Tucker, GA 30084 ph: 770.934.0902 fax 770.496.5996



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

16. International Shipments	WASTE MANIFEST 5. Generator's Name and Mailin	1. Connector ID Number	vriter.)			Form Approved, OMB No. 2050-003
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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

Pg MANIFEST#

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GENERATOR: Holston Army Ammunition Plant/BAE Systems Ordnance Systems Inc.

F (82 gal) >500 ppm F (82 gal) >500 ppm >500 ppm PCB Level TRANSFORMER TYPE: F (82 gal) Full or Empty KGS 907 907 907 POLE 2000 2000 2000 LBS Transformer Type Pad Pad Pad ₹ V 45 45 45 Out of Service Date MATERIAL DESCRIPTION: 3/11/2009 6/19/2008 3/11/2009 A=SWITCH, OCB, etc Material Description \vdash L495622PMLB L495625PMLB L495613PMLB Serial Number Unique Generator ID Number 495613 495625 495622 umber Unit Type **DRUM METAL** S C S S C M S TYPES:

SUBSTATION

C=CAPACITOR T=TRANSFORMER

CONTAINER METAL

DRUM FIBER

<u>-CONTAINER WOOD</u>

D=DEBRIS

0=0IL

B=BUSHING

PAD

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se print or type. (Form designed for use on elite (12-pitch) typewriter.) LV3698937-002 UNIFORM HAZARDOUS WASTE MANIFEST 21. Generator ID Number	22. Page		/3/2011 set Tracking Num		Approved	. Onld No.	2000-000
, (Continuation Sheet) TW 5210020421	2 of 2	0044	72699FLE			3.	
24, Generator's Name Blace Systems Ordinance Systems							
25. Tempsorter 3 Company Name 1/200 1000			U.S. EPAIDN	umber	777	10	
25. Transporter 3 Company Name Clean + Debors ENU.			U.S. EPAIDN	umber		D4	
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27a. 27b. U.S. DOT Description (including Proper Shipping Name, Mazzerd Clean, ID Number, HM and Packing Group (Fany))	28. Contain No.	Type	29. Total Quantity	30. Unit WE/Vol.	31.	Waste Code	
5. UN3077. WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID. N.O.S., (LEAD PAINT CHIPS), 9. PG III. (RAE-05)	001	DF	00020	P	D008	OUTSO	HEO
8. UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PG III. (OUT OF SERVICE DATE 08-11-2011)	001	DM	93	1	EB		
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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 Kingsport, TN, 37660

Date Received:

3/24/2009

Generator Contact Name:

Generator EPA ID:

TN5210020421

Load #:

311959

Manifest #:

002196326FLE

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

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

Generator Address:

4509 West Stone Drive Kingsport, TN, 37660

Sales Order#:

LV3698937

Date Received:

8/22/2011

Generator Contact Name:

Generator EPA ID:

TN5210020421

Load #:

334888

Manifest #:

004472699FLE

Original Date Removed Unit CH ID# From Service Type

Serial # / **Customer ID**

Material Description Disposal **Date**

Method of Disposal

Disposal Facility

24816695

8/11/2011

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



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

CERTIFICATE OF DISPOSAL

Generator Facility Name:

Bae Systems Ordinance Systems

Generator Address:

4509 West Stone Drive

Kingsport, TN, 37660

Sales Order#:

GA5062006

Date Received:

3/11/2013

Generator Contact Name:

Generator EPA ID:

TN5210020421

Load #: Manifest #:

004800103FLE

Original Date Removed Unit CHID# From Service Type

Serial # / **Customer ID**

Material Description Disposal **Date**

Method of Disposal

Disposal Facility

30000890

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.

Authorized Agent

Tuesday, April 02, 2013

Date

Page 1 of 1

9205 Kgs

Holston Army Ammunition Plant 2013 PCB Annual Document Log

Page 26



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

CERTIFICATE OF DISPOSAL

Generator Contact Name:

Bae Systems Ordinance Systems

Generator Facility Name: Generator Address:

4509 West Stone Drive

Kingsport, TN 37660

Sales Order #:

GA5473767

Date Received:

6/20/2013

Generator EPA ID:

TN5210020421

Manifest#:

004800260FLE

Line # Profile/Description

Disposal Method of Disposal Disposal Facility

PPMD80T TRANSFORMER <50 ppm FOR RECLAMATION

Date 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:

Title:

VP Environmental Applications

Date:

Tuesday, July 30, 2013

ATTACHMENT VII PCB ANNUAL DOCUMENT LOGS FROM Amy Crawford

PM / Inspection Checklist PM / INSP#: 123 PM Description: PCB Quarterly Inspections **Building** Area B-G Hours Next Due Date 7/15/2009 Last Complete 4/15/2009 **PM Completion Date:** Status Active Due every 3 mths Procedure STF Person Assigned 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 STF 9030 S/N 3164568 5-A Transformer PCB (3164568) 1 Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB) STF 9030 S/N 7146126 8-A Transformer (7146126) Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use S/N F962786 11-A Transformer (F962786) STF 9030 Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB) 12-A Transformer (PLR49861) STF 9030 S/N PLR49861 Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB) Transformer, Precipitator (L495599PMLB) 2150 ILbs STF 9030 3/N L495599PMLE Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid Transformer, Precipitator (L495603PMLB) 2150 Lbs STF 9030 3/N L495603PMLE Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid 5-A Small Capacitator (MCC DOOR) STF 9030 ID# 0045 Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use 6-A Small Capacitator (MCC DOOR) STF 9030 ID# 0046 Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use 7-A Small Capacitator (MCC DOOR) STF 9030 ID# 0047 Check PCB Logo

Check condition of equipment/leaks or filming

Check condition of equipment/leaks or filming

Check condition of equipment/leak or filming

Check condition of equipment/leak or filming

Check For equiptment in use

20-A Small Capacitator (MCC DOOR)

Check For equipment in use Capacitors (6) (30961)

Check for equipment in use Capacitor B201 Basement

Check for equipment in use

Check PCB Logo

Check PCB Logo

Check PCB Logo

ID# 0050

HOL 30961

HOL 60835

STF 9030

STF 9030

STF 9030

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



PM / Inspection Checklist PM / INSP# : 123 Building Area B-G PM Description: PCB Quarterly Inspections PM Completion Date: Status Active Hours Next Due Date 10/1/2009 Last Complete 7/1/2009 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 S/N 3164568 STF 9030 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 7146126 8-A Transformer (7146126) Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use STF 9030 S/N F962786 11-A Transformer (F962786) Check PCB Logo Check condition of equipment/leak or filming Check for equipment In use (NON PCB) 12-A Transformer (PLR49861) STF 9030 S/N PLR49861 Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB) Transformer, Precipitator (L495599PMLB) 2150 ILbs STF 9030 3/N L495599PMLE Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid Transformer, Precipitator (L495603PMLB) 2150 Lbs 3/N L495603PMLE STF 9030 Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid 5-A Small Capacitator (MCC DOOR) STF 9030 ID# 0045 Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use 6-A Small Capacitator (MCC DOOR) STF 9030 1D# 0046 Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use ID# 0047 7-A Small Capacitator (MCC DOOR) STF 9030 Check PCB Logo Check condition of equipment/leaks or filming Check For equiptment in use 12 20-A Small Capacitator (MCC DOOR) STF 9030 ID# 0050 Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Capacitors (6) (30961) STF 9030 HOL 30961 Check PCB Logo Check condition of equipment/leak or filming

Check for equipment in use

Capacitor B201 Basement Check PCB Logo

Check for equipment in use

Check condition of equipment/leak or filming

HOL 60835

STF 9030

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



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

PCB Transformer Inspection Example Checklist

PM / INSP	#: 123 Building Area B	-G PM Description: PCB Quarterly inspections		
Next Due Da	te 10/1/2009 Last Complete 1	7/1/2009 PM Completion Date:	Status Active	Hours
Due ever	y 3 mths	Person Assigned	Procedu	ine STF
PM Grou	Uneman, Facility Power	PM Category Inspection		9030
	Per Inspection Report - 1/3/08 - 7/28/08 - L495613PMLB - Move 8/4/08- THIS PM MUST BE CO	M25 = -	RTER.	
em Descripti	on		Propedure	Equipi Comp
Check PC Check to Check for (NON PC	ndition of equipment/leak or filming equipment in use 8)		STF 9030	S/N 3164568
	sformer (7146126)		9TF 9030	S/N 7146126
	28 Loge nditon of equipment/leaks or filming requipment in use			
	nsformer (F962786)		STF 9030	SAN P962788
Check for (NON PC	ndition of equipment/leak or filming equipment in use B)			-
Check PC Check co	ndition of equipment/leak or filming equipment in use		STF 9030	S/N PLR49861
Check PC Check oo	nditon of equipment/leaks or filming requipment in use	1150 ILbe	STF 9030	3/N L495509PMLE
Check CO	nditon of equipmentileaks or filming requipment in use	H50 Lbs	STF 9030	3/N L495803PMLE
9 5-A Small Check PC Check co	I Capacitator (MCC DOOR) B Logo nditon of equipment/leaks or filming		STF 8030	IDW 0045
	r equipment in use I Capacitator (MCC DOOR)		STF 9030	ID# 0046
Check PC Check co Check Fo	B Logo ndition of equipment/leaks or filming requipment in use			
Check PC Check co	nditon all equipment/lesks or filming		STF 9030	100 0047
	r equipment in use ill Capacitator (NCC DOOR) 8 Logo		STF 9030	ID# 0050
Check co. Check Fo	nditon of equipment/leaks or filming requipment in use			
Check PO Check co Check for Check for	The second secon	Veneza Salar o W	STF 9030	HOL 30961
Check PC	FE201 Basement B Logo Idition of equipment/leak or Ginling equipment in use		STF 9030	HOL 60835

Holston Army Ammunition Plant 2008 PCB Annual Document Log

Ordnance Systems Inc.

PM / Inspection Checklist
15 Capacitor 8201 Basement Check PCB Logo Chiest condition of equipment/feak or filming Check for equipment in use

STF 9030

HOL 60834

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 2 of 2

2008 PCB Transformer Quarterly Inspections

	t Due Date 4/4/2008 Last Complete 1/4/2008	PM Completion Date: 3-17-08 Person Assigned RP DB RH	Status Active	Hours STF	-
ı	PM Group Lineman, Facility Power Notes Per Inspection Report - 1/3/08 - 5-A, 11-A	PM Cetegory Inspection 1, 12-A - NON PCB		9030	
tem	Description		Procedure	Equip#	Comp
1	5-A Transformer PCB (3184588) Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)		STF 9030	S/N 3164568	Ż
2	8-A Transformer (7148129) Check PC8 Logo Check condition of equipment/leaks or filming Check For equipment in use		STF 9030	S/N 7146126	īZ
3	11-A Transformer (F992/86) 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 filmling Check for equipment in use (NON PCB)		STF 9030	S/N PLR49861	7
5	Transformer, Precipitator (L495599PMLB) 2150 ILbs Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	The second to th	STF 9030	I/N L495599PMLE	<u> </u>
8	Pyranoi Fluid Transformer, Precipitator (L49563PMLB) 2150 Libs Check PCB Logo Chack condition of equipment/leaks or filming Check For equipment in use Pyranoi Fluid		STF 9030 :	6/N L495803PMLE	<u> </u>
7	Transformer, Precipitator (LA93613PMLB) 2150 Lbs Check PCB Logo Check condition of equipment/leaks or filmling Check For equipment in use Pyranot Fluid		STF 9030	MN L495813PMLE	_1'
8	Transformer, Precipitator (L495622PMLB) 2150 lbs Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Pluid		STF 9030	L495622PMLB	ĬŢ,
9	Transformer, Precipitation (LASS625PMLB) 2150Lbs Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid		STF 9030	S/N L495625PMLE	Œ/
10	5-A Small Capacitator (MCC DOOR) Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	THE PROPERTY OF STREET STREET	STF 9030	ID# 0045	
11	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	
12	7-A Small Capacitator (MCC DOOR) Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use		STF 9030	10#0047	1

Ordnance Systems Inc.

PM 13	// / Inspection Checklist 20-A Small Capacitator (MCC DOOR) Check PCB Logo Check condition of equipment/leaks or filming	STF 9030	ID# 0050
14	Check For equipment in use Capacitors (6) (20091)	5TF 9030	MUL 30981
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	917 2000	1102 00001
15	Capacitor B201 Basement	6TF 9030	HOL 60836
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use		<u></u>
16	Capacitor 8201 Basement	STF 9030	HOL 60834
	Check PCB Logo Check condition of equipment/leak or timing Check for equipment in use		_

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 2 of 2

Ordnance Systems Inc.

Nex	ct Due Date 6/17/2008 Last Complete 3/17/2008	PM Completion Date: 6/18/08 Person Assigned 3 cm/hz PM Category Inspection	Status Active Procedure	Hours STF 9030
	Notes Per Inspection Report - 1/3/08 - 5-A, 11-/	- ·		
tem	Description		Procedure	Equips Com
1	5-A Transformer PCB (3184568) Check PCB Logo Check condition of equipment/leek or filming Check for equipment in use (NON PCB)		STF 9030	S/N 3164568
2	8-A Trunsformer (7146126) Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use		STF 9030	SAN 7146126
3	11-A Transformer (F982785) . Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NOM PCS)		STF 9030	S/N F982786
4	12-A Traceformer (PLR49881) Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)		STF 9030	8/N PLR49881
5	Transformer, Precipitator (L495599PMLB) 2150 iLbs Check PCB Logo Check condition of equipment/leeks or filming Check For equipment in use Pyranof Fauld	3 	STF 9030	SN L495599PMLE
6	Transformer, Precipitator (L495603PMLB) 2(50 Lbe Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid	1	STF 9030	XN L495603PMLE
7	Transformer, Precipitator (L495613PMLB) 2150 Lbs Check PCB Logo Check condition of equipment/leeks or filming Check For equipment in use Pyranol Pluid		8TF 9030	3/N L495813PML2
8	Transformer, Precipitator (L495622PMLB) 2150 libe Check PCB Logo Check condition of equipment/leeks or filming Check For equipment in use Pyranot Fluid		STF 9030	L495622PMLB
9	Transformer, Precipitator (L495625PMLB) 2150Lbe Check PCB Logo Check condition of equipment/leaks or fitming Check For equipment in use Pyranol Fluid		STF 9030	S/N L495625PMLE
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			STF 9030	ID# 0046
12	7-A Small Capacitator (MCC DOOR) Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use		STF 9030	104 0047

Ordnance Systems Inc.

	/ Inspection Checklist 20-A Small Capacitator (MCC DODR) Check PCB Logo Check condition of equipment/leaks or filming	STF 9030	ID# 0050	Þ
14	Check For equipment in use Capacitors (5) (38961) Check PCB Loge Check condition of equipment/leak or filming Check for equipment in use	STF 9030	1OL 30961	
	Capacitor B201 Besement Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030 I	HOL 60835	ليكا
	Capacitor 8201 Besement Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030 I	HOL 60834	

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.

Pege 2 of 2

M	/ Inspection Checklist		Copy	80/1/3 CV12
Nex	t Due Date 7/18/2008 Last Complete 6/18/2008 Due every 3 miths	Person Assigned 15 - F / M	Status Active	Hours _
	PM Group Lineman, Facility Power Notice Per Inspection Report - 1/3/08 - 5-A, 11-A	PM Category Inspection A, 12-A - NON PCB		9030
tem	Description		Procedure	Equip ® Con
1	5-A Transformer PCB (3154568) Check PCB Logo Check condition of equipment/leek 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 filmling Check For equipment in use		STF 9030	SAN 7146126
3	11-A Transformer (F962788) Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)		STF 9030	SAN F962786
4	12-A Transformer (PLR49861) Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)		8TF 9030	S/N PLR49861
5	Transformer, Precipitator (L495599PMLB) 2150 ILbs Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid		STF 9030	3/N L495599PMLE
6	Transformer, Precipitator (L495803PMLB) 2150 Lbs Check PCB Logo Check condition of equipment/feaks or filming Check For equipment in use	please remove	STF 9030	3/N L495603PMLE
7	Transformer, Precipitator (L485813PMLB) 2150 Lbs Check PCB Logo // Check PCB Logo // Check PCB Logo // Check PCP equipment/feaks or filming Check For equipment in use Puracet Blut	roved to 122 PCB ston	19 e Re	an Lasseispmer 2
8	Transformer, Precipitator (L498622PMLB) 2150 the Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Falid		STF 9030	L495622PMLB
9	Transformer, Precipitator (L495625PMLB) 2150Lbe Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyrenol Fluid		STF 9030	S/N L495625PMLE
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 (RCC DOOR) Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use		STF 90 30	ID# 0046
12	7-A Small Capacitator (MCC DOOR) Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use		8TF 9030	IDW 0047

Ordnance Systems Inc.

PN 13	// / Inspection Checklist 20-A Small Capacitator (MCC DOOR) Check POB Logo Check condition of equipment/leaks or filming Check For equipment in use	STF 9030	HD# 0050	
14	Capacitors (6) (\$0001) Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 30901	U
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 E201 Basement Check PCB Logo Check condition of equipment/resk or filming Chack for squipment in use	STF 9030	HOL 60834	

Page 2 of 2

	PM / INSP#: 123 Building Area B-G PM Description: PCB Quarterly Inspections			
Ne	xt Due Date 10/15/2008 Last Complete 7/28/2008 PM Completion Date:	Status Active	Hour	8
	Due every 3 mths Person Assigned	Procedu	Ire 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			
	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.			
ltem	Description	Procedure	Equip#	Comp
1	5-A Transformer PCB (3184588)	STF 9030	S/N 3184568	
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)			la d'aga
2	8-A Transformer (7148126)	STF 9030	S/N 7146126	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	5.1. 55.25	3,007110120	√
3	11-A Transformer (F982786)	STF 9030	S/N F962786	1/
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)			1/
4	12-A Transformer (PLR49881)	STF 9030	9/N PLR49881	
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)			_32*
5	Transformer, Pracipitator (L495599PMLB) 2150 ILbs	STF 9030	3/N L495599PML	E
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid			1.4
8	Transformer, Precipitator (L495603PMLB) 2150 Lbs	STF 9030	3/N L495603PML	1
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid			نميذ
7	Transformer, Precipitator (L495622PMLB) 2150 lbs	STF 9030	L495622PMLB	17.7
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranof Fluid			
8	Transformer, Precipitator (LA95525PMLB) 2150Lbs	STF 9030	3/N L495625PML	E .
	Check PCB Logo Check condition of equipment/seks or filming Check For equipment in use Pyranol Fluid			المنظر
9	5-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0045	
	Check PCB Logo Chack condition of equipment/leaks or filming Check For equipment in use			<u></u>
10	6-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0046	101
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use			LV
11	7-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0047	1/
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use			-v

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

Ordnance Systems Inc.

FN	M / Inspection Checklist			
	20-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0050	(منر) ا
	Check PCB Logo Check condition of equipment/leaks or Siming Check For equipment in use			للحسا
13	Capacitors (6) (30961)	\$TF 9030	HOL 30981	T.
	Check PCB Logo Check condition of equipmentilesk or filming Check for equipment in use			
14	Capacitor B201 Basement	STF 9030	HOL 60835	7
	Check PCB Logo Check condition of equipmentifiesk or faming Check for equipment in use			-
15	Capecitor 9201 Basement	STF 9030	HOL 60834	. /
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	100000000000	orane estre	V

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 2 of 2

PCB INVENTORY - JUNE 2009

HOLSTON ARMY AMMUNITION PLANT

	pm) EQUIPMENT LOCATION	200, boiler#1	200, boiler#2	8A, elect Rm	ior to ed as 11A	12A	sified 5A	8A, elect. Rm.	201,basement	201,basement	5A, MCC	6A, MCC		
HOLSION ARMY AMMONITION PLANI	PCB CONC. (ppm)	>500	>500	>200	Previously 158 prior to PCBX; Reclassified as non-PCB (10 ppm PCBs)	63	Previously 54 ppm prior to PCBS; Reclassified as non-PCB (0.71 ppm PCBs)	>200	>200	>200	>200	>200	441	
	AN	VOLUME (Gals.)			258 gal	610 gal	3244gal	423 gal	9 gal	1 pt.	1 pt.	QN	QN	2
	Fluid	Pyranol Pyranol								Pyranol	Pyranol	1000		
	CLASSIFICATION	Full PCB	Full PCB	Full PCB	Contaminated PCB; Unit reclassified as non-PCB	Contaminated PCB; Being reclassified – requires sampling after in service for 90 days. Unit requires upgrade before being brought online; dependent upon funding availability.	Contaminated PCB; Unit reclassified as non-PCB	Large	Small	Small	Small	Small	Concell	
	SERIAL	L495599PMLB	L495603PMLB	7146126	F962786	PLR49861	3164568	HOL#30961	HOL#60835	HOL#60834	ID#0045	ID#0046	1040047	
	COD	TR	TR	TR	TR	TR	TR	Ą	₹	ర్ర	×	×	>	
	EQUIPMENT TYPE	Transformer	Transformer	Transformer	Transformer	Transformer	Transformer	Capacitor	Capacitor	Capacitor	SM Capacitor	SM Capacitor	2000	

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.

Ordnance Systems Inc.

Comments	Shipped offsite 07/23/08	Sherical Report of the Policy Control of the	offsite 03/23/09	
Drum No.	NA A	X	A A	A A
New Drum (Y/N)	>	A V	A A	¥ ¥
Total Kg.	200.6	907.2	907.2	907.2
Vol. (Gals.)	6.25	82 gal	82 gal	82 gal
Stored at Bidg.	B-122	B-122	B-122	B-122
Date Stored	8/2/07	6/19/08	3/11/09	3/11/09
Date Removed	8/2/07	6/19/08	3/11/09	3/11/09
Removed From	General facility power distribution; discovered PCB after testing prior to disposal.	200, boiler#2	200, boiler#3	200, boiler#3
Serial No.	6833941	L495613PMLB	L495622PMLB	L495625PMLB
Equipment Type	5 KVA Transformer; GE	Transformer	Transformer	Transformer
	Serial No. Removed From Removed Stored at Bidg. (Gals.) Kg. (7/N) No.	Serial No.Removed From power discovered PCBDate power discovered PCB after testing prior to disposal.Date power disposal.Stored at Bidg. (Gals.)Vol. Total power at Bidg. (Gals.)No. (Y/N) kg. (Y/N)Drum No. (Y/N)Serial No.General facility power discovered PCB after testing prior to disposal.8/2/078/2/078/2/078/2/078/2/07NA	Serial No. Removed From Power distribution; e833941 Date Date Power discovered PCB after testing prior to disposal. Stored Stored at Bidg. (Gals.) Vol. Total Drum (Gals.) New Cy/N) Drum No. 6833941 General facility power distribution; after testing prior to disposal. 8/2/07 8/2/07 B-122 6.25 200.6 Y NA L495613PMLB 200, boiler#2 6/19/08 6/19/08 6/19/08 B-122 82 gal 907.2 NA NA	Serial No. Removed From Power distribution; e833941 Date power distribution; after testing prior to disposal. Date Stored stored stored stored at Bidg. (Gals.) Vol. Fog. (Y/N) From No. Total Drum No. (Y/N) Power (Y/N) Drum No. (Y/N) No. (Y/N) 6833941 discovered PCB after testing prior to disposal. 8/2/07 8/2/07 B-122 6.25 200.6 Y NA L495613PMLB 200, boiler#2 6/19/08 6/19/08 B-122 82 gal 907.2 NA NA L495622PMLB 200, boiler#3 3/11/09 3/11/09 B-122 82 gal 907.2 NA NA

Ordnance Systems Inc.

PCB ITEMS DISPOSED

JANUARY 2008 – June 2009 HOLSTON ARMY AMMUNITION PLANT

Date Disposed	8/21/08*	6/13/03	6/23/09	6/23/09
Date Shipped	7/23/08	3/23/09	3/23/09	3/23/09
Total Wt.(kg)	200.6	907.2	907.2	907.2
Vol. (Gals.)	6.25	82 gal	82 gal	82 gal
Stored at Bldg.	B-122	B-122	B-122	B-122
Date Stored	20/2/8	6/19/08	3/11/09	3/11/09
Date Removed	8/2/07	6/19/08	3/11/09	3/11/09
Removed From	General facility power distribution; discovered PCB after testing prior to disposal.	200, boiler#2	200, boiler#3	200, boiler#3
Serial No.	6833941	L495613PMLB	L495622PMLB	L495625PMLB
Equipment Type	5 KVA Transformer; GE	Transformer	Transformer	Transformer

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

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

Due every 3

mths

PM Completion Date: ___

Status Active

Hours

Person Assigned

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

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 - L495625PML8 & L495622PML8 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

	1722 2010 FROMON TENTOGOT BOOK (011	M por rully						
Item	Description		*/4 :**		1447 14	Procedi	ure Equip	# Comp
1	8-A Transformer (7146126)					STF 90	30 S/N 714	81 2 6
-	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use		77 . 505-5	ATTACK T				(3) +1
2	12-A Transformer (PLR49861)					STF 90	30 S/NPLR	19861
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use							
3	Transformer, Precipitator (L495599PMLB) 2150 ILbs				,	STF 90	30 3/N L49559	9PMLE
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid							L a
4	Transformer, Precipitator (L495603PMLB) 2150 Lbs					STF 90	30 3/N L4956	OSPMLE ;
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid							i
5	5-A Small Capacitator (MCC DOOR)					STF 90	30 ID# 01	145
6	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use 6-A Small Capacitator (MCC DOOR)		(8.2 × 10)		••••	STF 90	30 ID#40	L
•	Check PCB Logo		a.			317 90	יש וויים ויים ויים ויים ויים ויים ויים ו	MO Casaran
	Check condition of equipment/leaks or filming Check For equipment in use							
7	7-A Small Capacitator (MCC DOOR)	: 11 to		* ***	55	STF 90	30 ID# 0	047
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use							ļ
8	20-A Small Capacitator (MCC DOOR)	*5				STF 90	30 ID# 0	050
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use							\ <u>.</u>
9	Capacitors (6) (30961)	0.0.7		*:551	1999 (STF 90	130 HOL 3	1961 I
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use						11000	
10	Capacitor B201 Basement	* 1	1.10		*	STF 90	130 HOL 6	1935 ***
5	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use					311 30	11 0% 0	JUJU
11	Capacitor B201 Basement		::**		-01	STF 90	30 HOL 8	0834 1
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use						1. Wie U	1
					12	1 114	*	52



2010 PCB Transformer Quarterly Inspections

			-			10 /	_		¥3
	Due Date		Last Complete		PM Completion Date:		Status Active	Hour	-
	Due every	3 mths		Po	erson Assigned	100 / 174000m	Procedur		
ı	M Group	Lineman, Fa	clity Power	F	M Category Inspection			9030	
1)	Notes	7/28/08 - L49 8/4/08- THIS	PM MUST BE CO	ed to Bidg # OMPLETED	12-A - NON PCB \$122, PCB Storage, taken off WITHIN THE FIRST MONTI removed fron Bidg 200 & sto	H OF EACH QUARTER.	· .	ĸ	
əm	Descriptio	чп					Procedure	Equip#	Comp
1	5-A Transf	iormer PCB (3	1164568)		•		STF 9030	S/N 3164568	· /
		dition of equipm equipment in us	nent/leak or filming se						.;
2	8-A Transf	ormer (71461	26)				STF 9030	S/N 7146126	1
			nent/leaks or filming ise						
3		former (F962	786)				STF 9030	S/N F962786	12/
	Check for e (NON PCB	dition of equipm equipment in us i)			1			e e	
4		sformer (PLR	19861) •				STF 9030	S/N PLR49861	1
-41		dition of equipm equipment in us	nent/leak or filming se			*			LV
5		-	r (L495599PMLB)	2150 ILbs			STF 9030	3/N L495599PM	LE I
		diton of equipm equipment in u	ent/leaks or filming se		9	ж	y Y		
6	Transform	er, Precipitato	r (L495603PMLB)	2150 Lbs			STF 9030	3/N L495803PM	LE
		diton of equipm equipment in u	ent/leaks or filming se					: . €6	
9		Capacitator (ICC DOOR)	•			STF 9030	ID# 0045	
	Check For	diton of equipm equipment in u					#0 540		
0		Capacitator (N	ICC DOOR)				STF 9030	ID# 0046	V
	Check PCE		ent/leaks or filming	•			1(4)		LV
	Check For	equipment in u	38				W		
1		Capacitator (N	ICC DOOR)				STF 9030	ID# 0047	V
	Check PCE Check cond Check For		enVleaks or filming			* 8	:		
2		Capacitator (STF 9030	ID# 0050	
	Check For	diton of equipm equipment in u	ent/leaks or filming				NEC SECONDE		
3		(6) (30961)	84.				STF 9030	HOL 30981	12
			nent/leak or filming	(9))		¥	4.		
4	Capacitor	B201 Baseme	nt	0		~	STF 9030	HOL 60835	1.7
			nent/leak or.filming le			*			

Building Area B-G PM Description: PCB Quarterly inspections

νe.

PM LINSP#: 123

Capacitor 9201 Basement
 Check PCB Logo
 Check condition of equipment/leak or filming
 Check for equipment in use

STF 9030

HOL 60834

M / Inspection Checklist			
PM / INSP#: 123 Building Area B-G PM Description: PCB Quarterly inspections			Nº.
Next Due Date 4/20/2010 Last Complete 1/20/2010 PM Completion Date: 4-70-7010	Status Active	Hours	<u>ව</u>
Due every 3 mths Person Assigned RP ? D.B.	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 7/28/08 - L495613PMLB - Moved to Bidg #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 from Bidg 200 & stored at Bidg 122	•		
item Description	Procedure	Equip#	Comp
1 5-A Transformer PCB (3164568)	STF 9030	S/N 3164568	
Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)			
2 8-A Transformer (7146126)	STF 9030	S/N 7146126	
Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use		-	لكمها
3 11-A Transformer (F962786)	STF 9030	S/N F962786	
Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)			المحيا
4 12-A Transformer (PLR49881)	STF 9030	S/N PLR49861	
Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use (NON PCB)			
5 Transfermer, Precipitator (L495599PMLB) 2150 ILbs	STF 9030	3/N L496599PML	
Check PCB Logo Chack condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid	:-		دا
6 Transformer, Precipitator (L495603PMLB) 2150 Lbs	STF 9030	3/N L495603PML	
Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid	en.		
9 5-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0045	1
Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use			<u></u>
10 6-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0046	1/
Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use			
11 7-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0047	1
Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use			
12 20-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0050	V
Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use			
13 Capacitors (6) (30961)	STF 9030	HOL 30961	
Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use		•	
14 Capacitor B201 Basement	STF 9030	HOL 60835	T
Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use		#	

θ

²M / Inspection Checklist

15 Capacitor B201 Basement
Check PCB Logo
Check condition of equipment/leak or filming
Check for equipment in use

STF 9030

HOL 6083



	PM / INSP#	: 123	Building Ar	ea B-G PN	A Description :	PCB Quarte	orly inspections				_
Nex	ct Due Date	7/20/2010	Last Comple	te 4/20/2010	PM Compl	letion Date:	07-14-201	O Status	Active	Hours	6
	Due every	3 mths			Person Assign	ed JER	oggs		Procedure	STF	
	PM Group	Lineman, Fa	scility Power		PM Category	Inspection	20			9030	
	Notes	7/28/08 - L4 8/4/08- THIS	95613PMLB - 1 S PM MUST BE	Moved to Bidg ECOMPLETE		orage, taken of FIRST MON1	if this PM. I'H OF EACH QUARTE tored at Bidg 122	R.			
item	Descriptio	ព						Р	rocedure	Equip#	Сотр
1		former PCB (3164568)			•		8	STF 9030	S/N 3164568	[7]
c	Check PCE Check cond Check for e INON PCB	dition of equipa equipment in u	ment/leak or filmi se	_ ∴	emoved	From	PM 7/11	4 201 U			نېت
2		former (7146	126)						STF 9030	S/N 7146126	W
	Check For	diton of equipment in a		ing	w						
3	Check PCB		:786) ment/leak or filmi	ina					STF 9030	S/N F962786	7
		guipment in u			Rem	1	7	2010			attech
4		former (PLR	49861)			DUE C	117		STF 9030	S/N PLR49861	
		3 Logo dition of equip aquipment in u	ment/leak or filml	ing	~		Î	1 CJ	Ada	ded is	SACE
	NON PCB	<u></u>			- Ke	MODE	9 7/14	200	- ON	7/2	2/20
5			or (L495599PML	.B) 2150 ILbs				M2	STF 9030	3/N L495599PML	
		diton of equipa equipment in a	nent/leaks or film use	aling							
6		CONTRACTOR SECTIONS	or (L495603PML	B) 2150 Lbs					STF 9030	3/N L495603PML	TH
		diton of equipmequipmequipment in a	nent/leaks or film use	ning	o¥a			ā		(10)	
9		Capacitator (i	MCC DOOR)						STF 9030	ID# 0045	[V]
	Check For	diton of equipm equipment in t		ling						(3)	
10		Capacitator (I	MCC DOOR)						STF 9030	ID# 0046	
	Check For	liton of equipment in a		ilng							
11	7-A Small (Check PCB	Capacitator (I	MCC DOOR)		·				STF 9030	ID# 0047	-
	Check cond		nent/leaks or film use	ning				\$ ₄			
12			(MCC DOOR)		3500				STF 9030	ID# 0050	
targe trees			nent/leaks or film use	ning							
13	Capacitors	(6) (30961)					N.		STF 9030	HOL 30961	TV
		3 Logo dition of equipa equipment in u	ment/leak or filmi se	ing			8				
14		B201 Baseme	ent						STF 9030	HOL 60835	
			ment/leak or filmi se	Ing							(**************************************

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

iesday, July 13, 2010

in a mobaction of locklist 15 Capacitor B201 Basement

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

STF 9030

HOL 60834

sesday, July 13, 2010

Issue a work order if more than 30 minutes of maintenance repair time is required as a result of an inspection.

Page 2 of 2

PM / Inspection Checklist PM / INSP#: 123 **Building Area B-G** PM Description: PCB Quarterly Inspections PM Completion Date: Hours Next Due Date 10/14/2010 Last Complete 7/14/2010 Status Active Due every 3 mths Person Assigned 17. 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 Bidg 200 & stored at Bidg 122 7/14 /2010 - Removed 3164568, F962786, PLR49861, all non-PCB 7/22-2010 - Added PLR49861 back to PM, per Amy Comp **Item** Description **Procedure** Equip# 8-A Transformer (7146126) 1 STF 9030 S/N 7146126 Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use 12-A Transformer (PLR49861) STF 9030 8/N PLR49861 Check PCB Logo Check condition of equipment/leak or fliming Check for equipment in use Transformer, Precipitator (L495599PMLB) 2150 ILbs STF 9030 N L495599PML Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid Transformer, Precipitator (L495603PMLB) 2150 Lbs STF 9030 3/N L495603PMLE Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid 5-A Small Capacitator (MCC DOOR) STF 9030 ID# 0045 Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use 6-A Small Capacitator (MCC DOOR) STF 9030 ID# 0046 Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use 7-A Small Capacitator (MCC DOOR) STF 9030 ID# 0047 Check PCB Logo Check condition of equipment/leaks or filming Check For equiptment in use 20-A Small Capacitator (MCC DOOR) STF 9030 ID# 0050 Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Capacitors (6) (30961) STF 9030 HOL 3096 Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use Capacitor B201 Basement STF 9030 **HOL 60835** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use Capacitor B201 Basement STF 9030 HOL 60834 Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use

PCB INVENTORY - DECEMBER 31, 2010 HOLSTON ARMY AMMUNITION PLANT

	EQUIPMENT	200, boiler#1	200, boiler#2	8A, elect Rm	12A	8A, elect. Rm.	201,basement	201,basement	5A, MCC	6A, MCC	7A, MCC	20A MCC
	PCB CONC. (ppm)	>500	>200	>500	83	>500	>500	>500	>200	>500	>200	>500
	VOLUME (Gals.)	82 gal	82 gal	258 gal	3244gal	9 gal	1 pt.	1 pt.	QN	QN	QN	S
	Fluid	Pyranol	Pyranol	Pyranol		Pyranol	Pyranol	Pyranol	Pyranol	Pyranol	Pyranol	Pyranol
TOTAL STREET,	CLASSIFICATION	Full PCB	Full PCB	Full PCB	Contaminated PCB; Being reclassified – requires sampling after in service for 90 days. Unit requires upgrade before being brought online – dependent upon funding avaitability.	Large	Small	Small	Small	Small	Small	Small
	SERIAL Number	L495599PMLB	L495603PMLB	7146126	PLR49861	HOL#30961	HOL#60835	HOL#60834	ID#0045	ID#0046	ID#0047	ID#0050
	COD	TR	TR	TR	TR	CA	CA	CA	×	×	×	×
W	EQUIPMENT TYPE	Transformer	Transformer	Transformer	Transformer	Capacitor	Capacitor	Capacitor	SM Capacitor	SM Capacitor	SM Capacitor	SM Capacitor

ND = Not detectable

TRANSFORMERS RECLASIFIED AS NON-PCB

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

Ordnance Systems Inc.

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 Bidg.	Vol. (Gals.)	Total Kg.	New Drum (Y/N)	Drum No.	Comments
		_	No PCB items stored in B-122 in 2010.	stored in E	3-122 in 201	o.				

Ordnance Systems Inc.

JANUARY 1, 2010 – DECEMBER 31, 2010 HOLSTON ARMY AMMUNITION PLANT

5		
2		
Ļ		

Equipment	Serial No	Demoved From	Date	Date	Stored	Vol.	Total	Date	Date
Type	Seliai No.	Neilloved Florii	Removed	Stored	at Bidg.	(Gals.)	Wt.(kg)	Shipped	Disposed
			No PCB items dis	sposed in 20	10				

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 / 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: ____

Hours

Due every 3

Person Assigned _

PM Group Lineman, Facility Power

Procedure STF

Status Active

PM Category Inspection

9030

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 from Bidg 200 & stored at Bidg 122

7/14 /2010 - Removed 3164568, F962786, PLR49861, all non-PCB

	TALE-2010 - AGGEG (E114-3001 DBCK to 1 IN	bei vilià			
Item	Description	14.6		Procedure	Equip# Comp
1	8-A Transformer (7146126)			STF 9030	S/N 7146126
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use				ž is
2 -	12-A Transformer (PLR49861)	· - * * * * * * * * * * * * * * * * * * *	5 85	STF 9030	S/N PLR49861
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use				1
3	Transformer, Precipitator (L495599PMLB) 2150 ILbs		8.9	STF 9030	3/N L496599PMLE
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid				
4	Transformer, Precipitator (L495603PMLB) 2150 Lbs	174 - 1414 144-444 4141		STF 9030	3/N L495603PMLE;
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid	200			à
5	5-A Small Capacitator (MCC DOOR)			STF 9030	ID# 0045
6	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use 6-A Small Capacitator (MCC DOOR)	V. 10 . 14	Science with	STF 9030	ID# 0046
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use				tours.
7	7-A Small Capacitator (MCC DOOR)	<i>3.6</i>	***	STF 9030	ID# 0047
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use				1
8	20-A Small Capacitator (MCC DOOR)		****	STF 9030	ID# 0050
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use				
9	Capacitors (6) (30961)	15313 2000	\$100 C C C C	STF 9030	HOL 30961
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use				
10	Capacitor B201 Basement	· · · · · · · · · · · · · · · · · · ·	9 10	STF 9030	HOL 60835
7	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use				Not. 00855
11	Capacilor B201 Basement	2 30 3#	3.11	STF 9030	HOL 60834
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use			bud	THOE GOODS
	3 44-41	• 4	9	2000 1	¥



2011 PCB Transformer Quarterly Inspections

PM / INSP#: 123

Building Area B-G

Next Due Date 1/4/2011

PM Description: PCB Quarterly inspections

Last Complete 10/4/2010

PM Completion Date:

Status Active

Hours

Due every 3

Person Assigned _K

PM Group Lineman, Facility Power

Procedure STF

PM Category Inspection

9030

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

7/28/08 - L495613PMLB - Moved to Bidg #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

tem	Description	Procedure	Equi p#	Comp
1	8-A Transformer (7146126)	STF 9030	S/N 7146126	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use			
2	12-A Transformer (PLR49851)	STF 9030	S/N PLR49861	1
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use			
3	Transformer, Precipitator (L495599PMLB) 2150 ILbs	STF 9030	3/N L495599PML	1/
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid			
4	Transformer, Precipitator (L495603PMLB) 2150 Lbs	STF 9030	3/N L495603PML	E -
	Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid			<i>A</i>
5	5-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0045	1
	Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use			i
6	6-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0046	,
	Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use			
7	7-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0047	/
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use			ress direc
8	20-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0050	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use			
9	Capacitors (6) (30961)	STF 9030	HOL 30961	
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use			nde.
10	Capacitor B201 Basement	STF 9030	HOL 60835	
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use			
11	Capacitor B201 Basement	STF 9030	HOL 60834	
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use			

PM / INSP#: 123

Building Area B-G

PM Description: PCB Quarterly Inspections

Next Due Date 4/5/2011

mths

Last Complete 1/5/2011

PM Completion Date: 4/3/11

Status Active

Hours

Due every 3

Person Assigned Pelly, Halel

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 Bidg 200 & stored at Bidg 122

7/14 /2010 - Removed 3164568, F962786, PLR49861, all non-PCB

Item	Description	Procedure	Equip# Comp
1	8-A Transformer (7146126)	STF 9030	S/N 7146126
	Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use		
2	12-A Transformer (PLR49861)	STF 9030	S/N PLR49861
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use		•
3	Transformer, Precipitator (L495599PMLB) 2150 fLbs	STF 9030	3/N L495599PMLE ./
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid		•
4	Transformer, Precipitator (L495603PMLB) 2150 Lbs	STF 9030	3/N L495603PMLE
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid		
5	5-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0045
	Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use		
6	6-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0046
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use		,
7	7-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0047
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use		
8	20-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0050
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use		
9	Capacitors (6) (30961)	STF 9030	HOL 30961
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use		
10	Capacitor B201 Basement	STF 9030	HOL 60835
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use		
11	Capacitor B201 Basement	STF 9030	HOL 60834
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use Holston Army Ammunition Plant		Page 5
	2011 PCB Annual Document Log		. 490 0

PM / INSP#: 123

Building Area B-G

PM Description: PCB Quarterly Inspections

Next Due Date 7/21/2011

Last Complete 4/21/2011

Status Active

Hours

Due every 3 mths

Person Assigned AND

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 Bidg #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

la. —	Paradata.	fasta mes	Procedure	Equip#	Comp
item	Description			Equip#	Contp
1	8-A Transformer (7146126)		STF 9030	S/N 7146126	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use				•
2	12-A Transformer (PLR49861)		STF 9030	S/N PLR49861	/
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use				
3	Transformer, Precipitator (L495599PMLB) 2150 ILbs		STF 9030	3/N L495599PML8	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranot Fluid				
4	Transformer, Precipitator (L495603PMLB) 2150 Lbs		STF 9030	3/N L495603PML	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid				
5	5-A Small Capacitator (MCC DOOR)		STF 9030	ID# 0045	
	Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use				
6	6-A Small Capacitator (MCC DDOR)		STF 9030	ID# 0046	. /
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use				
7	7-A Small Capacitator (MCC DODR)		STF 9030	ID# 0047	1
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use				
8	20-A Small Capacitator (MCC DDOR)		STF 9030	ID# 0050	1
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use				
9	Capacitors (6) (30961)		STF 9030	HOL 30961	
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use				
10	Capacitor B201 Basement		STF 9030	HOL 60835	V
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use				
11	Capacitor B201 Basement		STF 9030	HOL 60834	/
	Check PCB Logo no 106 de 1050 Check condition of equipment/leak or filming Check for equipment in use				•

PM / INSP#: 123

Bullding Area B-G

PM Description: PCB Quarterly Inspections

Next Due Date 10/21/2011 Last Complete 7/21/2011

PM Completion Date: 10 - 17 - Zoll

Status Active

Hours

Due every 3

mths

Person Assigned K. REKU

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 Bidg 200 & stored at Bidg 122

7/14 /2010 - Removed 3164568, F962786, PLR49861, all non-PCB

	The state of the s	22.53==		
ltem	Description	Procedure	Equip#	Comp
1	8-A Transformer (7146126)	STF 9030	S/N 7146126	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use			ų.
2	12-A Transformer (PLR49861)	STF 9030	S/N PLR49861	
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use			
3	Transformer, Precipitator (L495599PMLB) 2150 ILbs	STF 9030	3/N L495599PMLE	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid			
4	Transformer, Precipitator (L495603PMLB) 2150 Lbs	STF 9030	3/N L495603PMLE	
	Check PCB Logo Chack condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid			
5	5-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0045	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use			
6	6-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0046	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use			
7	7-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0047	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use			
8	20-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0050	/
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use			
9	Capacitors (6) (30961)	STF 9030	HOL 30961	
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use			
10	Capacitor B201 Basement	STF 9030	HOL 60835	
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use			V
11	Capacitor B201 Basement	STF 9030	HOL 60834	
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use			•

PCB INVENTORY - DECEMBER 31, 2011 HOLSTON ARMY AMMUNITION PLANT

	m) EQUIPMENT	200, boiler#1	200, boiler#2	8A, elect Rm	12A	8A, elect. Rm.	201,basement	201,basement	5A, MCC	6A, MCC	7A, MCC	SOA MCC
	PCB CONC. (ppm)	>200	>200	>200	63	>200	>200	>200	>200	>200	>200	>500
	VOLUME (Gals.)	82 gal	82 gal	258 gal	3244gal	9 gal	1 pt.	1 pt.	QN	ND	ND	CZ
	Fluid Type	Pyranol	Pyranol	Pyranol		Pyranol	Pyranol	Pyranol	Pyranol	Pyranol	Pyranol	Dyranol
· NOTHING I WIN TO LOT OTHER	CLASSIFICATION	Full PCB	Full PCB	Full PCB	Contaminated PCB; Being reclassified – requires sampling after in service for 90 days. Unit requires upgrade before being brought online – dependent upon funding availability.	Large	Small	Small	Small	Small	Small	Small
	SERIAL Number	L495599PMLB	L495603PMLB	7146126	PLR49861	HOL#30961	HOL#60835	HOL#60834	ID#0045	ID#0046	ID#0047	והיייסקיי
	COD	TR	TR	ম	T.	S	გ	S	×	×	×	>
	EQUIPMENT TYPE	Transformer	Transformer	Transformer	Transformer	Capacitor	Capacitor	Capacitor	SM Capacitor	SM Capacitor	SM Capacitor	CM Consoitor

ND = Not detectable

TRANSFORMERS RECLASIFIED AS NON-PCB

	EQUIPMENT LOCATION	11A	5A	12A
	PCB CONC. (ppm)	Previously 158 prior to PCBX; Reclassified as non-PCB (10 ppm PCBs)	Previously 54 ppm prior to PCBX; Reclassified as non-PCB (0.71 ppm PCBs)	83
מסב-20	VOLUME (Gals.)	610 gal	423 gal	3244gal
	Fluid Type			
I NANSFORMENS RECEASIFIED AS NON-FOB	CLASSIFICATION	Formerly classified as contaminated PCB; Unit reclassified as non-PCB	Formerly classified as contaminated PCB; Unit reclassified as non-PCB	Contaminated PCB; Being reclassified – requires sampling after in service for 90 days. Unit requires upgrade before being brought online – dependent upon funding availability.
_	SERIAL NUMBER	F962786	3164568	PLR49861
	00 m	TR	TR	TR
	EQUIPMENT COD	Transformer	Transformer	Transformer

Ordnance Systems Inc.

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

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

Ordnance Systems Inc.

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

Date Disposed	8/30/11
Date Shipped	
Total Wt.(kg)	85
Vol. (Gals.)	N/A
Stored at Bidg.	122
Date Stored	6/9/11
Date Removed	6/9/11
Removed From	Area A
Serial No.	N/A
Equipment Type	Electrical Items Potentially Containing PCBs



Manifest and Certificate of Disposal from Clean Harbors

AX ACR XX

SC PPW 3/3/2011

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Ш	4	509 West Ston Cingsport, TN 37	e Chiero 7660				SAN	AE						
Ш	Gener	nator's Phone: 64:220 naporter 1 Company Name	578-8417							U.S. EPA IO N	umber			$\overline{}$
Ш	(Clean Harbors E	nvironments									322		
		neporter 2 Company Nam		D woo		ie.				U.S. EPAIDA	DO	67/3	8.89	'
Ш	16	grated Feelby Name on	She Address	Marai	DIXECTO	- WE.				U.S. EPA ID N	umber	/ M- K F	•	\neg
Ш	2	lean Harbors D 1927 Independs a Perte, TX 778	eur Park, III mos Parkers	e South				(4)		TXD	055	141	78	1
Ш		y's Phone:	(291) 930-2	2300						Щ,				
	Be. HN	6b. U.S. DOT Description and Packing Group (If a		Shipping Hama, Hazar	rd Clase, ID Number	•	-	10. Contain	Type	11. Total Cusetity	12. Unik Wt./Vbl.	13.	Waste Code	4
<u>~</u>		RO. UN1993		AMMABLE LK DHE, PETROL				001	DF	00226	P	D001		
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GENERATOR -		² UN1993, W		ABLE LIQUID	S, N.O.S., Ø	WHOOLE),	3.	001	DF	00040	p	D001		
ĭl	X	PG II. (BAS-0	120								•		OUTES	MAC
Ш		3. RQ, UN1263 (D001)	, WASTE PA	INT RELATED	MATERIAL	, 2 , PG III		001	DM	00454	P	D001	0035	F003
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П		UN2810.W	ASTE TOXIC	LICUIDS.ORI	BANIC. N.O.	S .		001	DF	00026		D022		
Н	x	With the second contract of the second									•		CHTSO	04#
Ш	1,	ecial Handling Instruction LCCRID		NG\$ 120	1385									
Ш	3	LCCRD CMS 17787		PG 120 PG 120 PG 153	1X16 1X55									
Н	15 (LCCRC	STR CHETTE CATIO	t: I hamby declare th	1365 and the contents of the	his consignment	are fully =	nd accumulatly dee	cribed above	by the proper sh	lpping nem	e, and are ch	esified, pack	dged.
Ш		merised and toboled/places Exposter, I certify that the o	consents of this consi	grement conform to th	e terms of the attack	hed EPA Actinos	eledgment i	of Consent.			M'export si	hipment and I	am the Prim	ery
П	German	certify that the wests min glors/Ollerors Printed/Ty	imization statement i ped Name	dentified in 40 CFR 2	62.27(a) (#1 am a is	irge quantily ge	nemator) or (greature	(d i an e smal	quantity go	nonator) is true.	·	100	onen Day	Year
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DESIGNATED FACILITY	100. q													
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	.010				10.5					2700 1				
	20 D	esignated Facility Owner of Typed Hamo	r Operator: Certifical	ion of receipt of heza	rdova materials cov	wered by the max 8					-		Og Og	y Year
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EPA	Form	8700-22 (Rev. 3-05) Clean Hashers	rrevious editions i las tibe appray	ere coecaest. clate pesmits (for and will a	ocept the t	racto ti	DEBIC Clarences of	GNATED:	FACILITY TO	DESTIN	ATION ST	ATE (IF R	.EQUIRED

LV3898937-002

se print or type. (Form designed for use on elite	12-pitch) typewriter.) LV2G9S9:37-002 21. Generator ID Number	22. Page	PPW 3	/3/2011	Form	Approved	OMB No.	2050-003
UNIFORM HAZARDOUS WASTE MARKEST (Continuation Shoot)	TM 5 21 00 20 4 21	2 # 2		7200071			8	
24. Generator's Name								
Bae Syste	ms Ordinance Systems							
25. Transporter 3 Company Name	Year Harbors ENU.			MAJ	(1392 (1392	223	50	
26. Transporter Company Name /				MAD	Amber	-		7
27a. 27b. U.S. DOT Description (including Proper Sh	lean Harrison	28. Contain	en T	29. Total	20. UNR			
HIM and Packing Group (If any))		No.	Types	Quantity	WEAVEL.	-	Waste Code	_
5. UN3077. WASTE ENVIRO SURSTANCES. SOLID. N.O.S (RAE-08)	MMENTALLY HAZARDOUS L. (LEAD PAINT CHIPSL 9. PG III.	001	DF	00020	P	D008	DUTSO	04H
	ATED BIPHENYLS, SOLID, 9, PG III, -11-2011)	001	DM	-48940	1	EB		
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32 Special Handling Instructions and Additional Information S. LCCRC ERSE171 1X51								
6.CHS17769 ERG\$171 1K51 7.LCCRM 1X3	3							
33. Transporter Admonissignment of Receipt of Printed Typed Name	d Meterials Signature					7		by Yes
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	SEALH I	way	17	ert-	ha			DI
He Hony Crawbo	d whe above Quan	nty W	45 D	467 6	8-24	1-11	e EK	8
36. Hazardous Waste Report Management Method C	odes (i.e., codes for historicous weeks treatment, disposal, and	ocyalny systems)						
5.11010 6.11	444 7 HO40				ᆜ.		_	
Form 8700-22A (Rev. 3-05) Previous editions a				FACILITY TO				
	ne charlete	~==				471-	TATE HE -	



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 Chrysport, T14: 37000

Date Received:

8/22/2011

Generator Contact Name:

Generator EPA ID:

TN5210020421

Load #:

334888

Manifest #:

004472699FLE

CH ID#

24816695

Original Date Removed Unit

DM

8/11/2011

Serial # /

24816695/

Material **Description**

Capacitor For Incineration

Disposal **Date**

Method of Disposal

Disposal Facility

From Service Type **Customer ID**

8/30/2011

Incineration

Deer Park, TX Facility

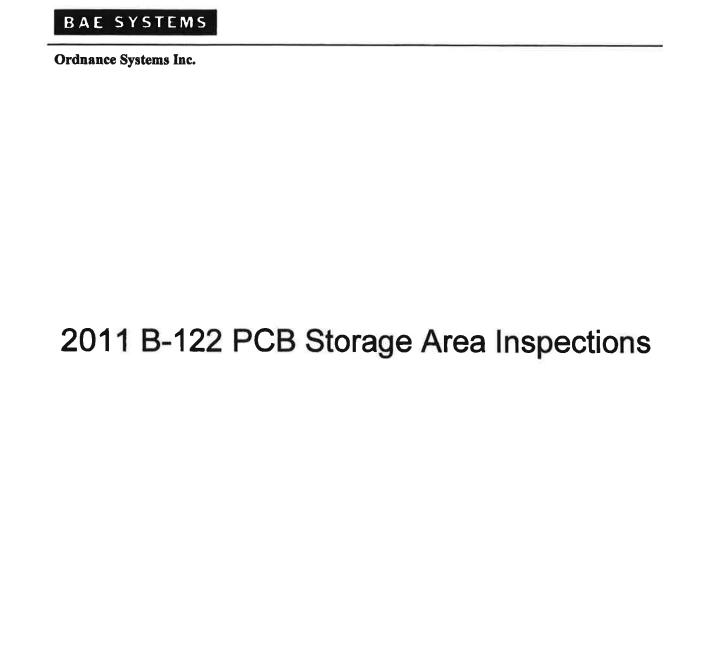
Under Civil and Criminal Penalties of Law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of 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.

> and Zond **Authorized Agent**

Thursday, September 08, 2011

Date

Page 1 of 1



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

_									s				*		a de		Soul	7					
Signature of Inspector	Handy Fred	Komelalle	Comba #10	Hand Bo	Kembalkell	Comed Man	Hart The	KARTEN X	Kandot	and, 4.4	0		Chein Amis		Bunz Currel	Kon S. Kum	D. I	0					
Date of Inspection	11-3-2008	902-8-21	P-12-2009	PO88866	371-2005	3-11-2005	3-11-5009 3-11-5009						£-9. [1		11-81-1	11-8-8	8-11-1						
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Date Removed	300 300 Pl)1 N	<i>y</i> &	11	10-19-08	3-11-2009	3-U-2005	2150 165 3-33-3009	3-33-20cc	3.23.200						·	和	8-11-11		•			
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lption	US KWA	1) 1	11 3	11	u	IJ	O	h.	n	. 14		Electrical Items	Retentially containing	KCOS From Area A.	,	"	M.				•		
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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.

Building Area B-G PM Description: PCB Quarterly inspections Next Due Date 1/17/2012 Last Complete 10/17/2011 PM Completion Date: Due every 3 mths

Status Active

Hours

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

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 Bidg 200 & stored at Bidg 122

7/14 /2010 - Removed 3164568, F962786, PLR49861, all non-PCB

	The cold through the transfer of the cold through the cold through					
Item	Description	17.11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1		Procedure	Equi p#	Comp
1	8-A Transformer (7146126)			STF 9030	S/N 7146126	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use					l V
2	12-A Transformer (PLR49861)			STF 9030	S/N PLR49861	
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use					
3	Transformer, Precipitator (L495599PMLB) 2150 ILbs			STF 9030	3/N L495599PML	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid	and Agein	6			<i>></i> 1
4	Transformer, Precipitator (L495603PNLB) 2150 Lbs			STF 9030	3/N L495603PML	**************************************
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranot Fluid					
5	5-A Small Capacitator (MCC DOOR)			STF 9030	ID# 0045	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use					V 1
6	6-A Small Capacitator (MCC DOOR)			STF 9030	ID# 0046	17/1
_	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use			۵		,
7	7-A Small Capacitator (MCC DOOR)			STF 9030	ID# 0047	V
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use					
8	20-A Small Capacitator (MCC DOOR)	200-100-000-000-000-000-000-000-000-000-		STF 9030	ID# 0050	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use					4
9	Capacitore (6) (30961)		• 4 4 444 Har	STF 9030	HOL 30961	_/
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use					1 🔻
10	Capacitor B201 Basement	NE 345 1	4 4 A. C. Market 1 1 1	STF 9030	HOL 60835	*** 3.
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	errove B				V ₂ %
11	Capacitor B201 Basement			STF 9030	HOL 60834	0.00
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	E Enwen				
	Create in adulation in and		***		2 2 15%	4.6

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: 4/17/

Status Active

Hours

Due every 3

9030

Person Assigned CA/S

Procedure STF

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 PLR49601 Dack to P	M, per Amy	227			222 2
Item	Description				Procedure	Equip# Comp
1	8-A Transformer (7146126)				STF 9030	S/N 7146126
2	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use 12-A Transformer (PLR49881)	≅ #			STF 9030	S/N PLR49861
•	Check PCB Logo	REMOVED	/Docsutex	151		~
	Check condition of equipment/leak or filming Check for equipment in use			MARKET !		- 44 •
3	Transformer, Precipitator (L495599PMLB) 2150 ILbs				STF 9030	3/N L495599PMLE
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid	14. 400	(22.4)	E 2		•
4	Transformer, Precipitator (L495803PMLB) 2150 Lbs				STF 9030	3/N L495603PMLE
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranot Fluid		V Ro	2		,
5	5-A Small Cepacitator (MCC DOOR)				STF 9030	ID# 0045 I
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use		,	00.74 ******		900 d
6	6-A Small Capacitator (MCC DOOR)				STF 9030	ID# 0046
7	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use 7-A Small Capacitator (MCC DOOR)		0.07.000	e (44) - (44)	STF 9030	ID# 0047
	Check PCB Logo					•
a	Check condition of equipment/leaks or filming Check For equipment in use 20-A Small Capacitator (MCC DOOR)			47M(-1)	STF 9030	ID# 0050
8					311 3000	10# 5030
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	21 *** B		E 5	075 0000	HOL 30961
9	Capacitors (6) (30961)				STF 9030	HOL 30801
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	197				3100 O
10	Capacitor B201 Basement	1 11000	*	340	STF 9030	HOL 60835
	Check PCB Logo Check condition of equipment/lesk or filming Check for equipment in use					, •.
11	Capacitor B201 Basement	***********	(8.38		STF 9030	HOL 60834
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use		1945 - 17	pp. 1952	2 2	
					-	

PM / INSP#: 123 **Building** Area B-G PM Description: PCB Quarterly Inspections Hours PM Completion Date: Status Active Due every 3 mths Person Assigned 1500 Procedure STF 9030 PM Category Inspection PM Group Lineman, Facility Power Notes 8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER. Procedure Equip# Comp item Description STF 9030 S/N 7146126 B-A Transformer (7146126) Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use STF 9030 S/N PLR49861 12-A Transformer (PLR49861) Logo missing Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use 3/N L495599PMLE Transformer, Precipitator (L495599PMLB) 2150 ILbs STF 9030 Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid Transformer, Precipitator (L495603PMLB) 2150 Lbs STF 9030 3/N L495603PMLE & Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid 5-A Small Capacitator (MCC DOOR) STF 9030 D# 0045 Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use STF 9030 D# 0046 6-A Small Capacitator (MCC DOOR) Chack PCB Logo Check condition of equipment/leaks or filming Greck For equipment in use '7-A Small Capacitator (MCC DOOR) STF 9030 ID# 0047 Check PCB Logo Check condition of equipment/leaks or filming Check For equiptment in use 20-A Small Capacitator (MCC DOOR) STF 9030 10# 0050 Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Capacitors (6) (30961) STF 9030 **HOL 30961** Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use Capacitor B201 Basement STF 9030 **HOL 60835**

Check PCB Logo

Check PCB Logo

Check for equipment in use Capacitor B201 Basement

Check for equipment In use

Check condition of equipment/leak or filming

Check condition of equipment/leak or filming

Not there

HOL 60834

STF 9030

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

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	\checkmark	S/N 7146126
3	Transformer, Precipitator (L495599PMLB) 2150 ILbs 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 condition of equipment/leaks or filming Check For equipment in use	V	ID# 0047
8	20-A Small Capacitator Check PCB Logo Check condition 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		5/N35811 1011

Hoiston Army Ammunition Plant 2012 PCB Annual Document Log VV 358 (1

Page 5

PCB INVENTORY – DECEMBER 31, 2012 HOLSTON ARMY AMMUNITION PLANT

	EQUIPMENT	200, boiler#1	200, boiler#2	8A, elect Rm	12A	8A, elect. Rm.	2A, MCC	5A, MCC	6A, MCC	7A, MCC	20A, MCC
	PCB CONC. (ppm)	>500	>200	>200	63	>500	>200	>500	>500	>500	>500
	VOLUME (Gals.)	82 gal	82 gal	258 gal	3244gal	9 gal	ON	QN	ND	QN	9
	Fluid	Pyranol	Pyranol	Pyranol		Pyranol	Pyranol	Pyranol	Pyranol	Pyranol	Pyranol
TOTOLOGY AND AMMONITOR TEAN	CLASSIFICATION	Full PCB	Full PCB	Full PCB	Contaminated PCB; Being reclassified – requires sampling once in service for 90 days. Unit requires upgrade before being brought online.*	Large	Small	Small	Small	Small	Small
	SERIAL Number	L495599PMLB	L495603PMLB	7146126	PLR49861	HOL#30961		ID#0045	ID#0046	ID#0047	ID#0020
	COD	TR	TR	뀖	T.	8	×	×	×	×	×
	EQUIPMENT TYPE	Transformer	Transformer	Transformer	Transformer*	6 Capacitors	SM Capacitor				

ND = Not detectable

TRANSFORMERS RECLASIFIED AS NON-PCB

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

*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.

Ordnance Systems Inc.

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

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

Ordnance Systems Inc.

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

5		

Equipment	Sorial No.	Demoved From	Date	Date	Stored	Vol.	Total	Date	Date
Type	Sellal NO.	WeillOved Floil	Removed	Stored	at Bidg.	(Gals.)	Wt.(kg)	Shipped	Disposed
None	N/A	N/A	N/A	N/A	Α/N	ΑN	A/A	ΑX	ΑX

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 Fou

BAE Systems - Ordnance Systems Inc.

Manager, Electrical & Instrument Services

O: 423.578.6086

E: matthew.foy@baesystems.com

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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

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 / INSP#: 123 Building Area B-G PM Description: Visual Inspection - PCB Equipment / A	Vrens		
Ne	ct 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.T.D	Procedu	re 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)	STF 9030	S/N 7146126	Comp
•	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	317 3000	3/14 / 140 120	/
2	12-A Transformer (PLR49661)	STF 9030	S/N PLR49861	1
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use			
3	Transformer, Precipitator (L495599PMLB) 2150 (Lbs	STF 9030	3/N L495599PMLE	-
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid			
4	Transformer, Precipitator (L495603PMLB) 2150 Lbs	STF 9030	3/N L495603PMLE	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid			
5	5-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0045	11
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use			
6	6-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0046	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use			
7	7-A Small Capacitator (MCC DOOR)	STF 9030	1D# 0047	1
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use			
8	20-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0050	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use			
9	Capacitors (6) (30961)	STF 9030	HOL 30961	/
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use			
10	Capacitor B201 Basement	STF 9030	HOL 60835	- " 1
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use			
11	Capacitor B201 Basement	STF 9030	HOL 60834	
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use			a an

PM / Inspection Checklist PM / INSP#: 123 **Building** Area B-G PM Description: Visual Inspection - PCB Equipment / Areas PM Completion Date: 3 Next Due Date 4/22/2013 Last Complete 1/22/2013 Status Active Hours Due every 3 mths Person Assigned Procedure STF PM Group Lineman, Facility Power 9030 PM Category Inspection Notes 8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUARTER. Description Procedure **Equips** Comp 8-A Transformer (7146126) STF 9030 S/N 7146126 Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use EANSFORMER SCHEDUKO to be 12-A Transformer (PLR49861) STF 9030 S/N PLR49861 Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use Transformer, Precipitator (L495599PMLB) 2150 iLbs STF 9030 3/N L495599PMLE Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid Transformer, Precipitator (L495603PMLB) 2150 Lbs STF 9030 3/N L495603PMLE Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid 5-A Small Capacitator (MCC DOOR) STF 9030 ID# 0045 Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use 6-A Small Capacitator (MCC DOOR) STF 9030 ID# 0046 Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use 7-A Small Capacitator (MCC DOOR) STF 9030 ID# 0047 Check PCB Logo Check condition of equipment/leaks or filming Check For equiptment in use 20-A Small Capacitator (MCC DOOR) STF 9030 ID# 0050 Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Capacitors (6) (30961) STF 9030 HOL 30961 Check PCB Logo Check condition of equipment/leak or filming

Check for equipment in use Capacitor B201 Basement

Check for equipment in use Capacitor B201 Basement

Check for equipment in use

Check condition of equipment/leak or filming

Check condition of equipment/leak or filming

Check PCB Logo

Check PCB Logo

DOESN'T EXIST

HOL 60835

HOL 60834

STF 9030

STF 9030

	Due every 3 mths Person Assigned 4/58	Procedur	a STF
ı	PM Group Lineman, Facility Power PM Category Inspection		9030
	Notes 8/4/08-THIS PM MUST BE COMPLETED WITHIN THE FIRST MONTH OF EACH QUAR	RTER.	
m	Description	Procedure	Equip# Comp
	8-A Transformer (7146126)	STF 9030	S/N 7146126
	Check PCB Logo		G/14 7 140 120
	12-A Transformer (PLR49861) Remarked From Dr	STF 9030	S/N PLR49861
	Check condition of equipment/leaks or filming Check For equipment in use 12-A Transformer (PLR49861) Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use Transformer, Precipitator (L495599PMLB) 2150 ILbs	Amy 7/9/2013	43
	Transformer, Precipitator (L495599PMLB) 2150 ILbs	STF 9030	3/N L495599PMLE
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid		,
	Transformer, Precipitator (L495603PMLB) 2150 Lbs	STF 9030	3/N L495603PMLE /
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid		W.**
	5-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0045
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use		
	6-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0046
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use		<u> </u>
	7-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0047
	Check PCB Logo Check condition of equipment/leaks or filming Check For equiptment in use		
	20-A Small Capacitator (MCC DOOR) Check PCB Logo	STF 9030	ID# 0050
ı	Check condition of equipment/leaks or filming Check For equipment in use Capacitors (6) (30961)	STF 9030	HOL 30961
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use		1.5.
)	Capacitor B201 Basement	STF 9030	HOL 60835
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use		1.
l	Capacitor 8201 Basement Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	STF 9030	HOL 60834
	and a different states	D back to Per Amy CR	Pm 7/9/2

PM Work Ticket			9/19/2013
Verigoter) f	305768	Startue:	Rec'd / Scheduled
Syent 1/ Determinion:	248 / SM - PGB Equipment Inspection	Make:	n/a
itomo//b/memblom	2070 JUNE / Area & POB Equipment insign	Model:	n/a
Malmonanea Croup:	LINE - Lineman, Facility Power	Cost Conter:	1-3400-19253
Equipment Owner:	Bright, Michael	None Dine	10/892013
Area/Building #:	Area B-G - Area B - General Facility	Evant (moryate	
Location:	Various (see attached)	Last Compléted	
(dentinication-1)		Typical Hours	3
(e) militeration was	自强制的	Actual Hours	: 0
(continent(on-s)		Previous PM-WO #	: - 1/1/0001
Previous Notes:			
Specification:	Old PM-123; PCB Qrarterly Inspection Typica	Duration: 1 hrs	***
	See attached equipment listing.		
Request Description:	Visual inspections.		
Maintenance Notes:			
Attachments			
	.0Area_B_PCB_Checklist.pdf		
		27	
Maintenance Work Tic	ket Completion		
20 2 20 20 20 20 20		Date:	
Completed By:		Date	

71.7m 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.

(() (()	102	in silon Vilabori	i excimiloums, s		(Co.(19)	teamin me
1	HOL	B200 – Precip. Roof	Transformer SN: L495599PMLB Pyranol fluid			
			Check PCB labeling legible / intact.		0/	
			Check general condition / integrity, signs of leakage.		एं	
2	HOL	B200 – Precip. Roof	Transformer SN: L495603PMLB Pyranol fluid			
			Check PCB labeling legible / Intact.		12/	
			Check general condition / integrity, signs of leakage.		02	
	1 11 110	ASE "香菜"	In In a second was a second	Total Indian		

Completed on w/o 305728 9/19/2013

77. 77 EFFECTIVE 7-24-13

SUMMARY OF CHANGES

400	Kara nas demonstra		STATE THE PART OF THE STATE OF
n/a	n/a	n/a	Creating new Equipment Item
1	1		into Preventive
			Maintenance.Net.

PM Work Ticket			9/23/2013
Work Order #:	305727	Status:	Rec'd / Scheduled
Event \$ / Description:	2467 3M - PCB Equipment Inspection	Make:	n/a
item #/ Description:	2401 / LINE - Area-A PCB Equipment Insp	Model:	n/a
Maintenance Group:	LINE - Lineman, Facility Power	Cost Center:	1-3400-19253
Equipment Owner:	Bright, Michael	Next Due:	(0/8/2016
Area/Building #:	Area A - Area A	Event Interval	8
Location:	Various (see attached)	Last Completed:	Maria de la companya della companya
Identification-1:		Typical Hours:	3
(dowlineation-2-	。并第一条4万°64克克。	Actual Houre:	0
(dentification-3)		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			
	Checklist.pdf, EventCheckList.pdf		
Maintenance Work Tic	ket 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.

ini L	1 1/2 1 1/2 1/2					
1		Bldg 8A,	Transformer	THE PARTY	pischur J	20mmans
	1	Ground	SN: 7146126			
	- 100	Floor	Equipment not in service.			
	54/50		No power to bldg 8-A.			
			Check PCB labeling legible / Intact.		5	DK
			Check general condition / Integrity, signs of leakage.		D/	DK
2		Bldg 8A,	(6) Capacitors			
	54/50	East side,	Surplus / obsolete equipment. Not In			
	See 1 No.	storage	service. No power to bldg 8-A.			
_	-		Check PCB labeling legible / intact.			OK
			Check general condition / integrity, signs of leakage.		9	OK
3	34/5D	2A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		9	OK
			Check general condition / integrity, signs of leakage.		□ I	OK
4	54/50	5A, MCC door	Capacitor			
			Check PCB labeling legible / Intact.		5	OK
			Check general condition / integrity,			ox
			signs of leakage.			C/K
5	54/30	6A, MCC door	Capacitor			
			Check PCB labeling legible / intact.			OK
			Check general condition / integrity, signs of leakage.			OK OK
6	34/30	7A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		II/	OK
			Check general condition / integrity, signs of leakage.		D/	OK
7	3H/30	20A, MCC door	Capacitor			i)
			Check PCB labeling legible / Intact.			OK
		71	Check general condition / integrity, signs of leakage.		₽	OK

BAE Systems
Ordnance Systems, inc.
Holaton Army Ammunition Plant
2013 PCB Annual Document Log

Facilities Maintenance Kingsport, TN 0/0 76720E 8105/19/19

Page 1 of 2 Page 11

PM Work Ticket			12/4/2013
Work Order #:	308324	Status:	Complete
Event # / Description:	246 7 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:	
identification-2:		Actual Hours:	2
Identification-3:		Previous PM-WO #:	308324 - 12/4/2013
Previous Notes:			
Request Description:			
Į.	See attached equipment listing.		
Maintenance Notes:			
•			
ttachments			W
	Area_B_PCB_Checklist.pdf	The state of the s	
aintenance Work Tick			

Completed By: _____

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: 12/19/2013

Event Last Complete Date: 9/19/2013

Event Late Status: 4 - Current

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

See attached equipment listing.

ĖQ	item	מו	#:
	110111	10	₩,

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:

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

77. 7mg FFECTIVE 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.

Ис п.	10	Location (Floor)	Description.	K v a li li		. do commande
1	HOL	8200 — Precip. Roof	Transformer SN: L495599PMLB Pyranol fluid			to committee
			Check PCB labeling legible / intact.			
			Check general condition / integrity, signs of leakage.		3	
2	HOL	B200 Precip. Roof	Transformer SN: L495603PMLB Pyranol fluid			
			Check PCB labeling legible / Intact.		9	
			Check general condition / integrity, signs of leakage.			
		¥ 1	A TAX WITH THE	A TIME T	PALL THE	TO THE THE PERSON NAMED IN

Complete 13/13

SUMMARY OF CHANGES

W. W.	the state of the s		
n/a	n/a	n/a	Creating new Equipment Item into Preventive Maintenance.Net.

BAE SYSTEMS Ordnance Systems Inc. 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?			Date:

Hoiston Army Ammunition Plant 2013 PCB Annual Document Log

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

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

See attached equipment listing.

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:

Check Item Description

Procedure

Complete

Visual Inspections.

Visually inspect the equipment iterms containing PCB contaminated fluid, checking for leakage, gener

194/13 54950 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.

	(1,004)	Description Live	y we	acomo.	commune
1	Bldg 8A, Ground	Transformer	and desirable statements	in the second	
I.	Floor	SN: 7146126		l a	
1	1	Equipment not in service.			
		No power to bldg 8-A. Check PCB labeling legible / intact.	-		
				3	
		Check general condition / integrity, signs of leakage.			
2	Bldg 8A,	(6) Capacitors			
	East side,	Surplus / obsolete equipment. Not in		1	
	storage	service. No power to bldg 8-A.			
		Check PCB labeling legible / intact.		₩.	
		Check general condition / integrity, signs of leakage.		9	
3	2A, MCC door	Capacitor			
		Check PCB labeling legible / intact.		30	
		Check general condition / integrity, signs of leakage.		S	
4	5A, MCC door	Capacitor			THE SHE
		Check PCB labeling legible / intact.		3	
		Check general condition / integrity,			
		signs of leakage.			
5	6A, MCC door	Capacitor			
		Check PCB labeling legible / Intact.		G/	
		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.		3	
		Check general condition / integrity, signs of leakage.			
		Signs of leanage.	是有限的支持的	以 持一些 E. E.	A CONTRACTOR OF THE PARTY OF TH

71. 24 EFFECTIVE

SUMMARY OF CHANGES

Burrachia Suntana (1988)
Creating new Equipment Item into Preventive Maintenance.Net.

PM / Inspection Checklist

F	M / INSP#: 123 Building Area B-G PM	Description : Visual Ins	pection - PCB Equipment / /	Areas		
	t Due Date 1/8/2013 Last Complete 10/8/2012	PM Completion Date: _	1/9/13	Status Active	Houn	
	Due every 3 mths	Person Assigned <u>C., A</u>	J.D.	Procedu	e STF	
	PM Group Lineman, Facility Power	PM Category Inspection			9030	
	Notes 8/4/08- THIS PM MUST BE COMPLETED	D WITHIN THE FIRST MON	TH OF EACH QUARTER.			
tem	Description			Procedure	Equip#	Comp
1	8-A Transformer (7146126)			STF 9030	S/N 7146126	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use					
2	12-A Transformer (PLR49861)			STF 9030	S/N PLR49861	1
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use					<u> </u>
3	Transformer, Precipitator (L495599PMLB) 2150 ILbs			STF 9030	3/N L495599PML	E
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fiuld					<u> </u>
4	Transformer, Precipitator (L495603PMLB) 2150 Lbs			STF 9030	3/N L495603PML	E
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid					1 9
5	5-A Small Capacitator (MCC DOOR)			STF 9030	ID# 0045	11 1
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use					السيسا
В	6-A Small Capacitator (MCC DOOR)			STF 9030	ID# 0046	1
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use					
7	7-A Small Capacitator (MCC DOOR)			STF 9030	ID# 0047	1
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use					
8	20-A Small Capacitator (MCC DOOR)			STF 9030	ID# 0050	
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use					I
9	Capacitors (6) (30961)			STF 9030	HOL 30961	1
.1	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use					
10	Capacitor B201 Basement			STF 9030	HOL 60835	$\sigma = \tau$
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use					•
11	Capacitor B201 Basement			STF 9030	HOL 60834	
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use					• •

	DM / INCDM . 499 Dullabor Assa D.O. BM Borrada usa and a	At 100 5	
		pection - PCB Equipment / Areas	
Nex	ext Due Date 4/22/2013 Last Complete 1/22/2013 PM Completion Date:		Hours
	Due every 3 mths Person Assigned No.	Procedu	re STF
	PM Group Lineman, Facility Power PM Category Inspection	3	9030
	Notes 8/4/08- THIS PM MUST BE COMPLETED WITHIN THE FIRST MON	TH OF EACH QUARTER.	
Item	n Description	Procedure	Equip# Comp
1	8-A Transformer (7146126)	STF 9030	S/N 7146126
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use		L
2	12-A Transformer (PLR49861)	Scheouke to be STF 9030	S/N PLR49881
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	WILLIAM TECNOVEO!	
3	Transformer, Precipitator (L495599PMLB) 2150 ILbs	STF 9030	3/N L495599PMLE
	Check PCB Logo Check conditon of equipment/leaks or filming Check For equipment in use Pyranol Fluid		
4	Transformer, Precipitator (L495603PMLB) 2150 Lbs	STF 9030	3/N L495603PMLE
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid		
5	5-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0045
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use		
6	6-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0046
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use		
7	7-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0047
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use		(_ <u>~</u>
8	20-A Small Capacitator (MCC DOOR)	STF 9030	ID# 0050
	Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use		L
9	Capacitors (6) (30961)	STF 9030	HOL 30961
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use		L
10	Capacitor B201 Basement	STF 9030	HOL 60835
	Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	EXIST	
11	Capacitor B201 Basement	STF 9030	HOL 60834

DOESN'T EXIST

HOL 60834

STF 9030

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

tt Due Date 6/26/2013 Last Complete 3/26/2013 PM Completion Date: 7-8-13 Due every 3 mths	Status Active Hours
Felson Assigned	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 QUA	\RTER.
Description	Procedure Equip# Comp
8-A Transformer (7146126)	STF 9030 S/N 7146126
Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Not in USC	L =
12-A Transformer (PLR49861) Remaind Frame	STF 9030 S/N PLR49861
	Amy 7/9/2013 4
Transformer, Precipitator (L495599PMLB) 2150 ILbs	STF 9030 3/N L495599PMLE
Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranol Fluid	,
Transformer, Precipitator (L495603PMLB) 2150 Lbs	STF 9030 3/N L495603PMLE
Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use Pyranci Fluid	
5-A Small Capacitator (MCC DOOR)	STF 9030 ID# 0045
Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use 6-A Small Capacitator (MCC DOOR)	STF 9030 ID# 0046
Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	di .
7-A Small Capacitator (MCC DOOR)	STF 9030 ID# 0047
Check PCB Logo Check condition of equipment/leaks or filming Check For equiptment in use 20-A Small Capacitator (MCC DOOR)	077 0000
Check PCB Logo Check condition of equipment/leaks or filming Check For equipment in use	STF 9030 ID# 0050 . L
Capacitors (6) (30961)	STF 9030 HOL 30961
Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	
Capacitor B201 Basement	STF 9030 HOL 60835
Check PCB Logo Check condition of equipment/leak or filming Check for equipment in use	17
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 smell Copacitator - ADDe MCC Door	D back to Pm 7/9/

Ordnance Systems Inc.

PM Work Ticket		9/19/2013
West Comments	305728	Status: Rec'd / Scheduled
Event #7 Posteripion	246 / SM - PCB Equipment Inspection	Make: n/a
160 in s / Domeniphons	2370 / LINE - Area-B PCB Equipment (psp	Model: n/a
Majnia nunco Groups	LINE - Lineman, Facility Power	Cost Center: 1-3400-19253
Equipment Owner:	Bright, Michael	Noxe-1000 10/8/2013
Area/Building #:	Area B-G - Area B - General Facility	EPontanio Vyte 3
Location:	Verious (see attached)	Last Completed:
(dontification-1)		Typical Hours: 3
(equification:2)		Actual Hours: 0
(apprilination-s):		Previous PM-WO #: - 1/1/0001
Previous Notes:		
Specification:	Old PM-123; PCB Qrarterly Inspection Typics	Duration: 1 hrs
	See attached equipment listing.	
Request Description:	Visual inspections.	
Maintenance Notes:		
August 1		
Attachments	.0Area_B_PCB_Checklist.pdf	
Eventorischeist.por, 10-2370-1.	.oTues_o_Lop_olecvischa	
Maintenance Work Tic	ket Completion	

Completed By: _____

Date: _____

7.7m 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.

tt=ttt	110, 113	(Figure)	peselption via	the teams to team the
1	HOL	B200 — Precip. Roof	Transformer SN: L495599PMLB Pyranol fluid	
			Check PCB labeling legible / intact.	
			Check general condition / integrity, signs of leakage.	ė
2	HOL	B200 — Precip. Roof	Transformer SN: L495603PMLB Pyranol fluid	
			Check PCB labeling legible / Intact.	02/
			Check general condition / integrity, signs of leakage.	DZ
	一种自然是	苏斯 罗克第二	Committee of the commit	

Completed on w/o 305728 9/19/2013

71. 77 EFFECTIVE 7-24-13

SUMMARY OF CHANGES

	30000		a de la despera de la como de la
n/a	n/a	n/a	Creating new Equipment Item
			into Preventive
			Maintenance.Net.

PM Work Ticket		A 150 CO	9/23/2013
Work Order #:	305727	Status:	Rec'd / Scheduled
Event#/Description:	246 f 3M - POB Equipment inspection	Make	n/a
Item IV Description:	2401/ LINE - AreavA PCB Equipment linse	Model	n/a
Malmenance Group:	UNE - Lineman, Facility Power	Coet Center:	1-3400-19253
Equipment Owner:	Bright, Michael	NextDue	(0/8/20 (8
Area/Building #:	Area A - Area A	Event Interval	B
Location:	Various (see attached)	Last Completed	
Identification-1:		Typical Hours	: 3
Gontineation-2-		Actual Hours	: 0
(son differable n=3)		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		74 7 12	Transfer of the Principle
ID-2401-1.0Area_A_PCB_0	Checklist.pdf, EventCheckLlst.pdf		
Maintenance Work Tic	ket Completion		NEW COLUMN

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.

H _a	10.1	10 1006 10066				
1	54/50	Bldg 8A, Ground Floor	Transformer SN: 7146126 Equipment not in service. No power to bldg 8-A.	value		se Septial Inc.
			Check PCB labeling legible / intact.		5	DK
			Check general condition / integrity, signs of leakage.			DK
2	54/50	Bidg 8A, East side, storage	(6) Capacitors Surplus / obsolete equipment. Not in service. No power to bidg 8-A.			
-			Check PCB labeling legible / Intact.			OK
			Check general condition / integrity, signs of leakage.		9	OK
3	34/50D	2A, MCC door	Capacitor			
			Check PCB labeling legible / intact.		9	OK
			Check general condition / integrity, signs of leakage.		I	OK
4	54/50	5A, MCC door	Capacitor			
_	-		Check PCB labeling legible / intact.		S	OK
			Check general condition / integrity, signs of leakage.		12	OK
5	54/30	6A, MCC door	Capacitor			
			Check PCB labeling legible / intact.			OK
			Check general condition / integrity, signs of leakage.			OK OK
6	34/30	7A, MCC door	Capacitor			
_			Check PCB labeling legible / intact.		3	OK
			Check general condition / integrity, signs of leakage.		5	OK
7	2H/20	20A, MCC door	Capacitor			8
-			Check PCB labeling legible / Intact.		N/	OK
			Check general condition / integrity, signs of leakage.		P	OK

BAE Systems Ordnance Systems, Inc. **Holston Army Ammunition Plant 2013 PCB Annual Document Log**

Facilities Maintenance Kingsport, TN

W 0 305727 Page 10f2 9/19/2013

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:	8
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 D	uration: 1 hrs	
	See attached equipment listing.		
Request Description:	Visual Inspections.		
Maintenance Notes:			
Attachments		777	
EventCheckList.pdf, ID-2370-1.0	DArea_B_PCB_Checklist.pdf		
Maintenance Work Tick	set Completion	TO TO U	
Completed By:			
		Date:	

BAE SYSTEMS

Ordnance Systems Inc.

ωlo 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

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

See attached equipment listing.

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:

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

71.7m 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.

Men k	JD, -34.	(lotation)	Description 1 Value		Comments
1	HOL	B200 — Precip. Roof	Transformer SN: L495599PMLB Pyranol fluid	, come	and the state of t
			Check PCB labeling legible / intact.	1	
			Check general condition / integrity, signs of leakage.	1	
2	HOL	B200 – Precip. Roof	Transformer SN: L495603PMLB Pyranol fluid		
			Check PCB labeling legible / intact.	N	
			Check general condition / integrity, signs of leakage.	<u> </u>	
			The terms of the second second second	Day of the	THE TOTAL STATE OF THE PARTY OF

Complete 13/13

71. 77 EFFECTIVE 7-24-13

SUMMARY OF CHANGES

griffma?	#Cim lav		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
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/Bullding #: 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

Holston Army Ammunition Plant 2013 PCB Annual Document Log

Work Order Complete?

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

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

See attached equipment listing.

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:

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

79. 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.

	Poonilin (doi)	Description to the	1 4 110	Camp	
1	Bldg 8A,	Transformer	THE PARTY OF	3200	Comments
	Ground Floor	SN: 7146126			
1	Floor	Equipment not in service.			
		No power to bidg 8-A.			
		Check PCB labeling legible / intact.			
		Check general condition / integrity, signs of leakage.			
2	Bldg 8A,	(6) Capacitors			
1	East side, storage	Surplus / obsolete equipment. Not in			
	Storage	service. No power to bldg 8-A.			
		Check PCB labeling legible / intact.		Y	
		Check general condition / integrity, signs of leakage.			
3	2A, MCC door	Capacitor			
		Check PCB labeling legible / intact.		30	
		Check general condition / integrity, signs of leakage.		□ □	
4	5A, MCC door	Capacitor			
		Check PCB labeling legible / intact.		130	
		Check general condition / integrity, signs of leakage.		0	
5	6A, MCC door	Capacitor			
		Check PCB labeling legible / intact.		G/	
		Check general condition / integrity, signs of leakage.		☑/	
6	7A, MCC door	Capacitor			
		Check PCB labeling legible / intact.			
		Check general condition / integrity, signs of leakage.		<u> </u>	
7	20A, MCC door	Capacitor			
		Check PCB labeling legible / intact.			
		Check general condition / integrity, signs of leakage.		<u>-</u>	
				(\$6.00) there is	NATO NETWORKS PROPERTY

79. 24 EFFECTIVE 7-24-13

SUMMARY OF CHANGES

Takene.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	APPENDIX AND AND THE CONTRACTOR	at a fixed to on a
n/a	n/a	n/a	Creating new Equipment Item into Preventive
			Maintenance.Net.

Ordnance Systems Inc.

PCB INVENTORY - DECEMBER 31, 2013 HOI STON ARMY AMMUNITION PLANT

	EQUIPMENT	200, boiler#1	200, boiler#2	8A, elect Rm	12A	8A, elect. Rm.	2A, MCC	5A, MCC	, 6A, MCC	7A, MCC	20A, MCC	
	PCB CONC. (ppm)	>200	>200	>200	63	>200	>500	>200	>200	>200	>200	
	WEIGHT (kg)	446.9	446.9	1406.1	17679.8	49.1						20028.8
1 2 2 2	VOLUME (gal)	82	82	258	3244	6	QN	QN	_ QN	QN	ΩN	3675
	Fluid Type	Pyranol	Pyranol	Pyranol		Pyranol	Pyranol	Pyranol	Pyranol	Pyranol	Pyranol	TOTAL
HOLDI ON ARMI AMMONITON FLAN	CLASSIFICATION	Full PCB	Full PCB	Full PCB	Contaminated PCB; Never operated after PCBX treatment so it could not be reclassified.*	Large	Small	Small	Small	Small	Small	
	SERIAL NUMBER	L495599PMLB	L495603PMLB	7146126	PLR49861	HOL#30961		ID#0045	ID#0046	ID#0047	ID#0020	
	CODE	TR	TR	TR	TR	CA	×	×	×	×	×	
	EQUIPMENT TYPE	Transformer	Transformer	Transformer	Transformer- REMOVED*	6 Capacitors	SM Capacitor					

ND = Not detectable

TDANSECOMEDS DECLASSIFIED AS NON-DCB

IED AS NON-PCB	Fluid VOLUME PCB CONC. (ppm) EQUIPMENT Type (Gals.)	610 gal PCBX; Reclassified as non-PCB (10 ppm PCBs)	Previously 54 ppm prior to PCBX; Reclassified 5A as non-PCB (0.71 ppm PCBs)	3244gal 63 12A
	CONC. (ppm)	rsly 158 prior to Reclassified as PCB (10 ppm PCBs)	sly 54 ppm prior X; Reclassified PCB (0.71 ppm PCBs)	63
	PCB	Previou PCBX; non-f	Previous to PCB as non-	
NON-PCB	VOLUME (Gals.)	610 gal	423 gal	3244gal
IED AS	Fluid Type			
KANSFORMERS RECLASSIFIED AS NON-PCB	CLASSIFICATION	Formerly classified as contaminated PCB; Unit reclassified as non-PCB	Formerly classified as contaminated PCB; Unit reclassified as non-PCB	Contaminated PCB; Never operated after PCBX treatment so it could not be reclassified.*
<u> </u>	SERIAL NUMBER	F962786	3164568	PLR49861
	CODE	Æ	TR	T.
	EQUIPMENT TYPE CODE	Transformer	Transformer	Transformer- REMOVED*

*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.

BAE SYSTEMS

Ordnance Systems Inc.

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 Bidg.	Vol. (Gals.)	Total Kg.	New Drum (Y/N)	Drum No.	Comments
None	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

BAE SYSTEMS

Ordnance Systems Inc.

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

Equipment	Serial No	Demoved From	Date	Date	Stored	Vol.	Total	Date	Date
Type	ON IBIDO	Ivellioved i Ioill	Removed	Stored	at Bidg.		Wt.(kg)	Shipped	Disposed
Transformer	PLR49861	12A	See below	N/A	12A (equipment location)	3244	See	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.



Ordnance Systems Inc.

Manifests and Certificates of Disposal from Clean Harbors

UNIFORM HAZARDOUS WASTE MANEEST					_		1 61111	Approved, O	
100000000000000000000000000000000000000	THE21002	0421	2 Page 1 of	800) 483	77		480		3 F
5. Generalo's Horse and Mali. Blue Systemes: Orr 4509 West Shor Kinutessort: TH 3 Generalo's Phone: 44.23 C. Transpoter 1 Company Nam	dinance Systems to Orive 7660	1 Bailey		SAME	s (if different	ten maling accord	65)		
	u Environmental Servi	•				U.S. EPAID	D 0 3 8	2000	
7. Transporter 2 Company Nam	Ğ.					U.S. EPA ID	ramber a s	9888	00
8. Designated Facility Harns on						U.S. EPA (D)	Namber		
Clean Harbors F 1876 Februs Street Tunker, QA 3000	34					GAI	0980	8391	87
	on (building Proper Shiping No.	me, Hanyd Class, ID Nurs	Ψ,	10. Core	iters	11. Third	12. Unit	44 115	nda Coda
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1 - District Admired Pe III 947 15. General Torrestor Front contact and inhaled/slacen Beporter, I certify that the o I certify that the seate mixed General Stages Principally 16. International Shipments Transporter starreture (the sepont 17. Transporter starreture (the sepont 17. Transporter Printed Typed Tem Transporter 2 Printed Typed Tem 18. Discorpancy	TO CERTIFICATION: I hereby dod, and are in all respects to products of this consignment continuation statement lider/lifed in a gar Narrae I support to U.S. is only); of Recoil of Materials	declare that the conflicts of the property of	his consignment are scording to applicat hed EPA Acknowled arga quantity games Signal	his inflammational und not grant for Consuers. for) or (b) (IT am a um sure) 7 - Pour	LB	e by the proper shi nental regulations. scenator) is true.		nd are closed nent and i am Novin	-
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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)

1875 Forge Street, Tucker, GA 30084 ph: 770.934.0902 fax 770.496.5996



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 Date Removed Unit CH ID# From Service Type

Serial#/ Customer ID

Material Description

Disposal Date

Method of Disposal

Dieposal Facility

30000890

2/25/2013

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.

Authorized Agent

Tuesday, April 02, 2013

Date

Page 1 of 1

9205 Kgs

Holston Army Ammunition Plant 2013 PCB Annual Document Log

Page 26

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	1	UNIFORM HAZARDOUS 1. Generator ID Number	2. Page 1 of	3. Eme	rgency Respons	e Phone	4. Manifest	Tracking Nu	ımber	
-		" WASTE MANIFEST TN 521 (1020421	: 1	SOU	7-483-37	18	nan mailing addre	480	<u> </u>	FLE
1		Bae Systems Ordinance Systems		General	BEETIDDA BRO E TO	s (ir amerent tr	ian masing addre	88)		
1		4509 West Stone Drive	: C	4 8						
1	П	Kinesport, TN 37660 423-470-1690 Paul R	giley		SA M	i E		2.5		
1	Ш	of transporter a company warns	U.S. EPA ID	Number						
1	П	Clean Harhors Environmental Corrices Inc. 7. Transporter 2 Company Name				-	U.S. EPAIDY	30333	250	
1	11	3. · · · · · · · · · · · · · · · · · · ·					I	turiog:		
1	11	8. Designated Facility Name and Site Address					U.S. EPA IO	Yumber		
1	П	Clean Harbors PPM LLC								
ŀ	Ш	1672 East Highland Road, Twinsburg, OH Facilitys Phone: 330-425-3825	44087		<u> </u>	e		-	100	
ŀ	11	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number			10. Contai	nera	11. Total	96975 12 Unit	075	
١	Н	HM and Packing Group (If any))			No.	Type	Quantity	Wt.Voi.	13. Waste	Codes
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l	₹	NON DOT REGULATED NATERIAL (MA LB F	CB	01	TIM	18181	Lict		_
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П	П	1. DSOT						167		·
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П	1	 GENERATOR'S/OFFEROR'S CERTIFICATION: 1 hereby declare that the contents of this marked and tabeled/losecarded, and are in all manages to proper coording for transport according. 	s consignment a	re fully an	d accurately des	crited above	by the proper ship	olno name.	and are classified	nackaned
Ш	1	Exporter, I cardify that the contents of this consignment conform to the large of the alleghe	ording to oppice	doment o	avonal and nand	mai governme	intal regulations.	if export ship	ment and I am the	Primary
П	G	I certify that the waste minimization statement identified in 40 CFR 262-27(a) (if I am a largenerator's/Offeror's Printed/Typad Name	je quantity gener Signi		b) (if I am a smal	quantity gen	eretor) is true.	,	Trest.	B
ĮĮ		Michael Bright	1	$\cdot nn$	rolans	1.1	Similie	1	Month	19113
E	: [s. International Snipments Import to U.S.	Export from U.		Port of entr		The Ala		0	(110)
_	-	rensporter signature (for exports only): Transporter Acknowledgment of Receipt of Methrials			Date leavin					
TR ANSPORTER	Ti	ensporter / Printed Typed Name /	Signa	ature -	\rightarrow		_/_		Month	Day Wass
SPO	L	Sick Lembar		-	Sm	-1	dinn	181	1000	Day Year
AN	1"	ansporter 2 Printed/Typed Name	Signa	ature		- /	ALL PARTY	-	Month	Day Year
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ł	L	a. Discrepancy Indication Space Quantity Type			Residue		Partiai Rajec	tion	L Full	Rejection
<u>_</u>	18	b. Alternate Facility (or Generator)		Man	ifest Reference I	Number:				
5]"	- Collection Collection)					U.S. EPA ID NU	mber		
ĕ		clity's Phone:					Í			1
恒	18	c. Signature of Alternate Facility (or Generator)							Month	Day Year
DESIGNATED FACILITY	19	Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treetr	- Marcon A						-1	1
띪	1.	2.	meπ, disposal, a	and recycl	ing systems)	-	14.			
I	_	N141]"		.4	ì
	20.	Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered			se noted in Item	18a				
ļ	3	amanda Debuski	Signa	nuce/	111		. 1	1	Month	Day Year
PA	Fo	m 8700-22 (Rev. 3-05) Pravious editions are obsolete.		1	7)	u	DESIG	NATER	ACILITYTO	UI)
Mr.	i,	Holston Army Ammunition Plant 2013 PCB Annual Document Log			-	210.	5598)	ACHITY TO	LINERATOR
		- R2390000				1 1		⊅ %		



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

Facility General Manager

Shantanu of Pahi

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

Menifest #:

004800260FLE

Line # Profile/Description

Disposal Method of Disposal Disposal Facility

PPMD80T TRANSFORMER <50 ppm FOR RECLAMATION

Date 7/19/2013

Decommission

Twinsburg, OH Fedility

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:

Title:

VP Environmental Applications

Date:

Tuesday, July 30, 2013

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



Ordnance Systems Inc.

2014 PCB Transformer Quarterly Inspections

864018 0mm

ID-2401 Area A – PCB Checklist **VERSION: 1.0**

75. 7m FFECTIVE 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.

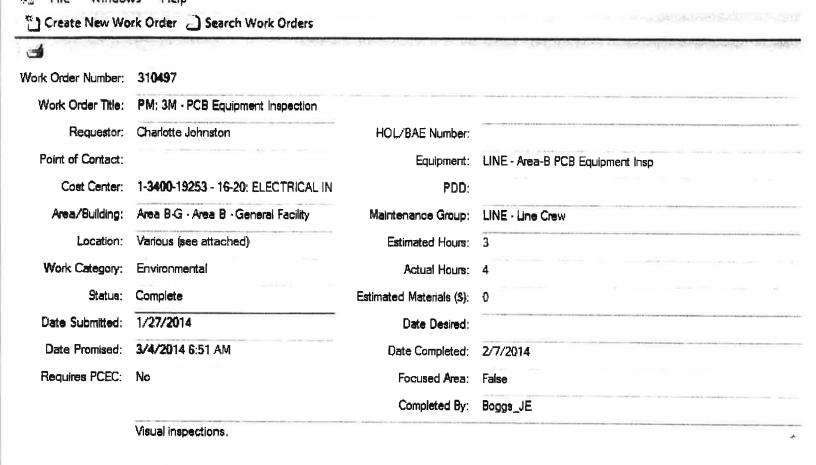
REFERENCES:

- 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.

		And a second transfer of the			
1	Bldg 8A,	Transformer			
	Ground	SN: 7146126			
	Floor	Equipment not in service.	1		
		No power to bldg 8-A.			
		Check PCB labeling legible / intact.			
		Check general condition / integrity, signs of leakage.		V	
2	Bidg 8A, East side, storage	(6) Capacitors Surplus / obsolete equipment. Not in service. No power to bidg 8-A.			
		Check PCB labeling legible / intact.		凶	
1	:	Check general condition / integrity, signs of leakage.		ď	
3	2A, MCC door	Capacitor			
		Check PCB labeling legible / intact.		3	
		Check general condition / integrity, signs of leakage.		□ 2	
4	SA, MCC door	Capacitor			
		Check PCB labeling legible / intact.			
	,_8	Check general condition / integrity, signs of leakage.		ď	
5	6A, MCC ; door	Capacitor			
	1	Check PCB labeling legible / Intact.		E	
		Check general condition / integrity, signs of leakage.		022	
6	7A, MCC door	Capacitor			
		Check PCB labeling legible / Intact.		E	
		Check general condition / integrity, signs of leakage.		g	
7	20A, MCC	Capacitor			
		Check PCB labeling legible / intact.		T.	
		Chack general condition / integrity, signs of leakage.		□ □	
Carry Control	Leave to the second	THE PROPERTY OF THE PROPERTY O		WWW.	

BAE Systems Ordnance Systems, Inc. Facilities Maintenance Kingsport, TN



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:

File Name Last Modified

EventCheckList.... 1/27/2014 6:48:...
ID-2370-1.0_- Ar... 8/5/2013 9:07:0...

Attachments:

Hoiston Army Ammunition Plant 2014 PCS Annual Document Log

Page 3

62681E 0/W

ID-2401 Area A — PCB Checklist VERSION: 1.0

14 77. 24 27-24-13

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.

(fx)	I have		w. "Zint 195. (seni) sa sa sanatan i
1	Bidg 8A, Ground Floor	Transformer SN: 7146126 Equipment not in service. No power to bldg 8-A.	A Committee market of the control of
		Check PCB labeling legible / intact.	5/
		Check general condition / integrity, signs of leakage.	SV
2	Bidg 8A, East side, storage	(6) Capacitors Surplus / obsolete equipment. Not in service. No power to bidg 8-A.	
		Check PCB labeling legible / intact.	9
		Check general condition / integrity, signs of leakage.	S Y
3	2A, MCC door	Capacitor	
9,200		Check PCB labeling legible / Intact.	
		Check general condition / integrity, signs of leakage.	8
4	SA, 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.	D'
7	20A, MCC door	Capacitor	
		Check PCB labeling legible / intact.	5
		Check general condition / integrity, signs of leakage.	(g/
150 M 15 1) T 217 T WWW. #		Property of the Control of the Contr

BAE Systems Ordnance Systems, Inc. Facilities Maintenance Kingsport, TN

40181E olu

ID-2370 Area B -- PCB Checklist VERSION: 1.0

64 150 21.7m EFFECTIVE 7-24-5

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: L496598PMLB Pyranol fluid		
			Check PC8 labeling legible / intact.	Y	
			Check general condition / integrity, signs of leakage.	is.	
2	HOL	B200 — Precip. Roof	Transformer SN: L495803PMLB Pyranol fluid	_	
			Check PCB labeling legible / intact.	5'	
			Check general condition / integrity, signs of leakage.		

BAE Systems Ordnance Systems, Inc. Facilities Maintenance Kingsport, TN

Page 1 of Z

ID-2401 Area A – PCB Checklist 4105/ HC/L

VERSION: 1.0

79. 2 EFFECTIVE 7-24-13

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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.

			n v		n Shundara
1	Bldg 8A,	Transformer		-	
	Ground	SN: 7146126		1./1	
ľ	Floor	Equipment not in service.			
		No power to bldg 8-A.	OK		
		Check PCB labeling legible / Intact.	OK	12/	
		Check general condition / integrity,		10	
		signs of leakage.	OK	1	
2	Bidg 8A,	(6) Capacitors			DIMO DE PROPERTO DE
	East side,	Surplus / obsolete equipment. Not in		1 1	
	storage	service. No power to bldg 8-A.	OK		
		Check PCB labeling legible / intact.	OK	0	*****
		Check general condition / integrity,			
		signs of leakage.	OK	-	
3	2A, MCC	Capacitor			
	door		lok		
		Check PCB labeling legible / intact.	OK		
		Check general condition / integrity,	-	10/	
		signs of leakage.	OK	1 - 1	
4	5A, MCC door	Capacitor	100		
		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		
4		Check general condition / integrity,		THE T	
		signs of leakage.	OX	-	
6	7A, MCC door	Capacitor			
		Check PCB labeling legible / Intact.	OK	52	
		Check general condition / integrity,			
1		signs of leakage.	OK	_	
7	20A, MCC door	Capacitor			
		Check PCB labeling legible / intact.	OK	2	
		Check general condition / integrity,			
		signs of leakage.	OK	100	
1.00 F 18.24 . 20.	2 明 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Signs of tearings.		2000 TO 100	CAN OUT DESIGNED TO THE

BAE Systems Ordnance Systems, Inc. Facilities Maintenance Kingsport, TN

316604 7/24/2014 VERSION: 1.0 SH/CA

21.7m FFECTIVE 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:

ID-2370

Area B - PCB Checklist

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

1	HOL	B200 — Precip. Roof	Transformer SN: L495599PMLB Pyranol fluid			25
			Check PCB labeling legible / intact.	OL		
			Check general condition / integrity, signs of leakage.	OK	0	
2	HOL	8200 — Precip. Roof	Transformer SN: L485603PMLB Pyranol fluid			
01/2====			Check PCB labeling legible / Intact.	OK	9	
			Check general condition / integrity, signs of leakage.	DK	5	

BAE Systems Ordnance Systems, Inc. Facilities Maintenance Kingsport, TN

WOW: 330334 Completed By: CA BC Date: 111-29-14

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.

9	Equip ID		Description	Value	Comp	Comments
1		Bidg 8A, Ground	Transformer		7	
- 1		Floor	SN: 7146126 Equipment not in service.			
1		11001	No power to bldg 8-A.			
			Check PCB labeling legible / intact.		Ø	
			Check general condition / integrity, signs of leakage.		0	:-
2		Bldg 8A,	(6) Capacitors			
		East side,	Surplus / obsolete equipment. Not in			
-		storage	service. No power to bldg 8-A.			
			Check PCB labeling legible / intact.		Z	
			Check general condition / integrity, signs of leakage.	ý	D'	
3		2A, MCC door	Capacitor		1	
			Check PCB labeling legible / intact.		2	
			Check general condition / integrity, signs of leakage.			
4		5A, MCC door	Capacitor		V	
			Check PCB labeling legible / intact.			
		***	Check general condition / integrity, signs of leakage.		5	
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.		Ø,	
			Check general condition / integrity, signs of leakage.		Q'	
7		20A, MCC door	Capacitor		/	
			Check PCB labeling legible / intact.		12	

BAE Systems Ordnance Systems, Inc. Facilities Maintenance Kingsport, TN

	Check general condition / integrity, signs of leakage.		0	
清烈影響		建物质	(0.00 M)	CONTRACTOR STATE AND ADDRESS.

BAE Systems Ordnance Systems, Inc. Facilities Maintenance Kingsport, TN Page 2 of 3

10-23	70			
Area	8-	PCB	Chec	klist

9-24-2014

wo#: <u>32023</u> 5	Completed By: <u>A</u>	BC	Date: _	10-29	-14
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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 #	Egulp (D	Location (Floor)	Description	Value	Comp	Comments.
1	HOL	B200 - Precip. Roof	Transformer SN: L495599PMLB Pyranol fluid		V	
			Check PCB labeling legible / intact.		D/	
			Check general condition / integrity, signs of leakage.		V	
2	HOL	8200 – Precip. Roof	Transformer SN: L496603PMLB Pyranol fluid		V	
			Check PCB labeling legible / intact.		Ø.	
			Check general condition / integrity, signs of leakage.			
於加爾					A291486	

BAE Systems Ordnance Systems, Inc. Facilities Maintenance Kingsport, TN

Ordnance Systems Inc.

PCB INVENTORY – DECEMBER 31, 2014 HOLSTON ARMY AMMUNITION PLANT

	Т	П									
EQUIPMENT	200, boiler#1	200, boiler#2	8A, elect Rm	12A	8A, elect. Rm.	2A, MCC	5A, MCC	6A, MCC	7A, MCC	20A, MCC	
PCB CONC.	>200	>200	>200	63	>500	>500	>200	>200	>200	>200	
WEIGHT	446.9	446.9	1406.1	17679.8	49.1						20028.8
VOLUME (gal)	82	82	258	3244	6	QN	QN	QN	QN	QN	3675
Fluid	Pyranol	Pyranol	Pyranol		Pyranol	Pyranol	Pyranol	Pyranol	Pyranol	Pyranol	TOTAL
CLASSIFICATION	Full PCB	Full PCB	Full PCB	Contaminated PCB; Never operated after PCBX treatment so it could not be reclassified.*	Large	Small	Small	Small	Small	Small	
SERIAL	L495599PMLB	L495603PMLB	7146126	PLR49861	HOL#30961		ID#0045	ID#0046	ID#0047	ID#0020	
CODE	TR	TR	TR	Ŧ	S	×	×	×	×	×	
EQUIPMENT	Transformer	Transformer	Transformer	Transformer- REMOVED*	6 Capacitors	SM Capacitor					

ND = Not detectable

TRANSFORMERS RECLASSIFIED AS NON-PCB

	EQUIPMENT LOCATION	11A	9A			
	PCB CONC. (ppm)	Previously 158 prior to PCBX; Reclassified as non-PCB (10 ppm PCBs)	Previously 54 ppm prior to PCBX; Reclassified as non-PCB (0.71 ppm PCBs)			
NON-PCB	VOLUME (Gals.)	610 gal	423 gal			
IED AS I	Fluid Type					
I KANSFORMERS RECLASSIFIED AS NON-PCB	CLASSIFICATION	Formerly classified as contaminated PCB; Unit reclassified as non-PCB	Formerly classified as contarninated PCB; Unit reclassified as non-PCB			
7	SERIAL NUMBER	F962786	3164568			
	CODE	Æ	TH			
	EQUIPMENT TYPE CODE	Transformer	Transformer			

Ordnance Systems Inc.

PCB ITEMS IN STORAGE JANUARY 1, 2014 – DECEMBER 31, 2014 HOLSTON ARMY AMMUNITION PLANT

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

Ordnance Systems Inc.

PCB ITEMS DISPOSED JANUARY 1, 2014 – DECEMBER 31, 2014 HOLSTON ARMY AMMUNITION PLANT

ON PLANT		
HOLSTON ARMY AMMUNITION PLANT		
HOLSTON ARI		

Equipment	Serial No.	Removed From	Date	Date	Stored	Vol.	Total	Date	Date
2011			Nelliova	מוסוס	at Didg.	(Cals.)	MILINA)	Silipped	Disposed
None	N/A	Α'N	N/A	ΑN	Y/N	A/A	A/N	A/A	A/N

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



Ordnance Systems Inc.

2014 PCB Transformer Quarterly Inspections

884018 0/W

ID-2401 Area A - PCB Checklist VERSION: 1.0

752 2mg FFECTIVE 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 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1			i den e
1	Bldg 8A,	Transformer			
	Ground	SN: 7146126			K
	Floor	Equipment not in service.			
		No power to bidg 8-A.			
		Check PCB labeling legible / intact.			
		Check general condition / integrity, signs of leakage.		Œ	
2	Bldg 8A,	(6) Capacitors			
	East side,	Surplus / obsolete equipment. Not in	1		
	storage	service. No power to bidg 8-A.			
		Check PCB labeling legible / intact.		0/	
T	:	Check general condition / integrity, signs of leakage.		Ø	
3	2A, MCC door	Capacitor			
		Check PCB labeling legible / intact.		3	
		Check general condition / integrity,		Q	
		signs of leakage.			
4	5A, MCC door	Capacitor			
		Check PCB labeling legible / intact.			
		Check general condition / integrity, signs of leakage.		ď	
5	6A, MCC :	Capacitor	***		
		Check PCB labeling legible / Intact.		E	
		Check general condition / integrity, signs of leakage.		022	
6	7A, MCC door	Capacitor			
		Check PCB labeling legible / Intact.		E	
		Check general condition / integrity, signs of leakage.		3	
7	20A, MCC- door	Capacitor			
		Check PCB labeling legible / intact.		OY.	
		Check general condition / integrity, signs of leakage.		2	
PART OF ME	CHARLES OF THE SAME		E CONTRACTOR		Name of the Party

BAE Systems Ordnance Systems, Inc. Facilities Maintenance Kingsport, TN

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:

File Name Last Modified EventCheckList.... 1/27/2014 6:48:... ID-2370-1.0_-_Ar... 8/5/2013 9:07:0...

Attachments:

Hoiston Army Ammunition Plant 2014 PCB Annual Document Log

Page 3

62681E 0/W

ID-2401 Area A — PCB Checklist

VERSION: 1.0

1130 H 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.

			de actual de seum	
1	Bldg 8A,	Transformer	The state of the s	MANAGETT -
1	Ground	SN: 7146126		
1	Floor	Equipment not in service.		
		No power to bidg B-A.		
		Check PCB labeling legible / intact.	5/	
		Check general condition / integrity, signs of leakage.	5	
2	Bidg BA, East side, storage	(6) Capacitors Surplus / obsolete equipment. Not in		, n.,
	ziniake	service. No power to bldg 8-A.	 	
		Check PCB labeling legible / intact.	9	
		Check general condition / integrity, signs of leakage.		
3	2A, MCC door	Capacitor		
		Check PC8 labeling legible / intact.	SP	
		Check general condition / integrity, signs of leakage.	8	
4	5A, MCC door	Capacitor		
		Check PCB labeling legible / intact.	S	
		Check general condition / integrity, signs of leakage.	8	
5	6A, MCC door	Capacitor		
		Check PC8 labeling legible / intact.	520	20211
		Check general condition / integrity, signs of leakage.	S	
6	7A, MCC door	Capacitor		
		Check PCB (abeling legible / intact.	52	
		Check general condition / integrity, signs of leakage.	G/	
7	20A, MCC door	Capacitor		
		Check PCB labeling legible / intact.	9	
		Check general condition / integrity, signs of leakage.	9	

BAE Systems Ordnance Systems, Inc. Facilities Maintenance Kingsport, TN

m/0 313404

ID-2370 Area B ~ PCB Checklist VERSION: 1.0

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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 PC8 Equipment Areas

NOTES:

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

. W		Carle De Torre	A 2000 POLICE CONTRACTOR AND A TAX	entelling a stor	illia a serio costa de
1	HOL	B200 — Precip. Roof	Transformer SN: L495598PMLB Pyranol fluid	-	
			Check PCB labeling legible / Intact.	Œ	Y
			Check general condition / integrity, signs of leakage.	P	r
2	HOL	8200 — Precip. Roof	Transformer SN: L495803PMLB Pyranol fluid	~	
			Check PCB labeling legible / intact.		Y
			Check general condition / integrity, signs of leakage.	1	

BAE Systems Ordnance Systems, Inc. Facilities Maintenance Kingsport, TN Page 1 of Z

ID-2401 Area A – PCB Checklist 4105/46/L

VERSION: 1.0

79. 2 EFFECTIVE 7-24-13

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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.

	I Water		di ve		Carantary
1	Bidg 8A,	Transformer			
	Ground	SN: 7146126		1./1	
	Floor	Equipment not in service.			
		No power to bldg 8-A.	OK		
		Check PCB labeling legible / Intact.	OK	0	
	7	Check general condition / integrity,		D-	
		signs of leakage.	OK	1 1	
2	Bldg 8A,	(6) Capacitors			
l	East side,	Surplus / obsolete equipment. Not in		1/1	
	storage	service. No power to bldg 8-A.	OK	in the second	
		Check PCB labeling legible / intact.	OK	0	
		Check general condition / integrity,			
		signs of leakage.	OK	-	
3	2A, MCC	Capacitor	100	 	
	door		OK		
		Check PCB labeling legible / intact.	OK		
Manual Inc.		Check general condition / integrity,		12/	
		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	D/	
		Check general condition / integrity,	7	B	
		signs of leakage.	OZ	~	
6	7A, MCC door	Capacitor	7.5-		
		Check PCB labeling legible / intact.	OK	52	
		Check general condition / integrity,		10	
		signs of leakage.	OK		
7	20A, MCC door	Capacitor			
		Check PCB labeling legible / intact.	OK	2	
		Check general condition / integrity, signs of leakage.	OK		
18. F A.S. P. S.	THE SHAW OF		ON THE PROPERTY.	MAN SERVICE	SAN PROPERTY OF THE PERSON

BAE Systems Ordnance Systems, Inc. Facilities Maintenance Kingsport, TN

316604 7/24/2014 VERSION: 1.0 5H/CA

21.7m 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:

Area B - PCB Checklist

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

NOTES:

ID-2370

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.	CUL		
			Check general condition / integrity, signs of leakage.	OK		
2	HOL	8200 – Precip. Roof	Transformer SN: L488603PMLB Pyranol fluid			
TV-53+4			Check PCB labeling legible / Intact.	OK		
			Check general condition / integrity, signs of leakage.	DK	3 ⁄	

BAE Systems Ordnance Systems, Inc. Facilities Maintenance Kingsport, TN

wor: <u>320234</u>	Completed By: <u>CA</u>	BC	Date: 111-29-14
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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		Description	Value	Comp	Comments
1		Bldg 8A, Ground	Transformer SN: 7146126		V	
		Floor	Equipment not in service. No power to bldg 8-A.			
			Check PCB labeling legible / intact.		Ø	
			Chack general condition / integrity, signs of leakage.		0	-
2		Bidg 8A, East side, storage	(6) Capacitors Surplus / obsolete equipment. Not in service. No power to bldg 8-A.			
			Check PCB labeling legible / intact.		V	
			Check general condition / integrity, signs of leakage.		O'	
3		2A, MCC door	Capacitor		1	
			Check PCB labeling legible / intact.		2	
			Check general condition / integrity, signs of leakage.			
4		5A, MCC door	Capacitor		V	
			Check PCB labeling legible / intact.		0	
			Check general condition / integrity, signs of leakage.		9	
5		6A, MCC door	Capacitor			
			Check PCB labeling legible / intact.			
			Check general condition / integrity, signs of leakage.			
6		7A, MCC door	Capacitor		V	
			Check PCB labeling legible / intact.		1	
			Check general condition / integrity, signs of leakage.		V	
7		20A, MCC door	Capacitor		V	
			Check PCB labeling legible / intact.		12	

BAE Systems Ordnance Systems, Inc.

Facilities Maintenance Kingsport, TN

Check general	condition / integrity, signs of		D	
leakage.				
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BAE Systems Ordnance Systems, Inc. Facilities Maintenance Kingsport, TN

Page 2 of 3

ID-23	70			
Area	8-	PCB	Checklis	Ł

9-24-2014

wo#: <u>32023</u> 5	Completed By:	BC	Date: 10 - 29 -1
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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 (D	Location (Floor)	Description	Value	Comp	Comments
1	HOL	B200 – Precip. Roof	Transformer SN: L495599PMLB Pyranol fluid		V	
			Check PCB labeling legible / intact.		D/	
	10		Check general condition / integrity, signs of leakage.		Q'	
2	HOL	8200 – Precip. Roof	Transformer SN: L495603PMLB Pyranol fluid		V	
			Check PCB labeling legible / Intact.		Z.	
			Check general condition / integrity, signs of leakage.		0	
N. Well					洞察翻着	A STATE OF S

BAE Systems Ordnance Systems, Inc.

Facilities Maintenance Kingsport, TN

Ordnance Systems Inc.

PCB INVENTORY – DECEMBER 31, 2014 HOLSTON ARMY AMMUNITION PLANT

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	EQUIPMENT	200, boiler#1	200, boiler#2	8A, elect Rm	12A	8A, elect. Rm.	2A, MCC	5A, MCC	6A, MCC	7A, MCC	20A, MCC	
	PCB CONC.	>500	>500	>500	63	>500	>500	>500	>500	>500	>200	
	WEIGHT	446.9	446.9	1406.1	17679.8	49.1						20028.8
	VOLUME	82	82	258	3244	6	QN	QN	QN	QN	QN	3675
	Fluid	Pyranol	Pyranol	Pyranol		Pyranol	Pyranol	Pyranol	Pyranol	Pyranol	Pyranol	TOTAL
TOTOL OF THE CHARLES IN THE COLOR OF THE CHARLES	CLASSIFICATION	Full PCB	Full PCB	Full PCB	Contaminated PCB; Never operated after PCBX treatment so it could not be reclassified.*	Large	Small	Small	Small	Small	Small	
	SERIAL	L495599PMLB	L495603PMLB	7146126	PLR49861	HOL#30961		ID#0045	ID#0046	ID#0047	ID#0020	
	CODE	Æ	TR	TR	TR	CA	×	×	×	×	×	
	EQUIPMENT	Transformer	Transformer	Transformer	Transformer- REMOVED*	6 Capacitors	SM Capacitor	SM Capacitor	SM Capacitor	SM Capacitor	SM Capacitor	

ND = Not detectable

	EQUIPMENT LOCATION	11A	5A
	PCB CONC. (ppm)	Previously 158 prior to PCBX; Reclassified as non-PCB (10 ppm PCBs)	Previously 54 ppm prior to PCBX; Reclassified as non-PCB (0.71 ppm PCBs)
NON-PCB	VOLUME (Gals.)	610 gal	423 gal
IED AS I	Fluid Type		
IRANSFORMERS RECLASSIFIED AS NON-PCB	CLASSIFICATION	Formerly classified as contaminated PCB; Unit reclassified as non-PCB	Formerly classified as contaminated PCB; Unit reclassified as non-PCB
2	SERIAL NUMBER	F962786	3164568
	CODE	TR	TR
	EQUIPMENT TYPE CODE	Transformer	Transformer

Ordnance Systems Inc.

PCB ITEMS IN STORAGE JANUARY 1, 2014 – DECEMBER 31, 2014 HOLSTON ARMY AMMUNITION PLANT

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

Ordnance Systems Inc.

JANUARY 1, 2014 – DECEMBER 31, 2014 HOLSTON ARMY AMMUNITION PLANT

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Date Disposed N/A

Date Shipped N/A

Total Wt.(kg) N/A

Vol. (Gals.) N/A

Stored at Bidg. N/A

Date Stored N/A

Date Removed N/A

Removed From N/A

Serial No.

Equipment

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Type None

Holston Army Ammunition Plant, Area B, Pad-Mounted Transformers

Transformer Number	Status	Manufacturer	РСВ	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	РСВ	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	РСВ	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-15/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		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	РСВ	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	РСВ	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	РСВ	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

							Date of
Transformer Number	Status	Manufacturer	PCB	Serial Number	Size KVA	Comments	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	/5	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	