1992 Annual PCB Report

1. Annual Record - Could not locate original of generator's manifest. Found attached copy. Signed copy of disposal facility manifest could not be located.

2. Annual Document Log - Complete and attached. Also, a copy of the Sun PCB Update is attached.

3. Quarterly Inspection Reports - 3Q92 and 4Q92 inspection reports are attached. Could not find 1Q92 and 2Q92 reports.

4. Manifest No. ENS007740 was for disposal of PCB oil and debris from the retrofilling of 710AS, 949BH and 951BH (PCB Transformers).

Michael T. Mangly

10/30/97

1992

Philadelphia Refinery
Point Breeze Processing Area

PCB Annual Document and Worksheet

Facility Sun Company, Inc (R+M) EPA Id PAD002289700
Address 3144 Passyunk Avenue
City Philadelphia State PA Zipcode 19145

Instructions

These forms are provided only as examples for the Recordkeeping requirements of the PCB Rule found at 40 C.F.R. Section 761.180(a). Use of these forms is not required by the PCB Rule, but proper completion of these forms will aid in your complying with the PCB Rule. Before completing these forms, however, you should be familiar with the entire PCB Rule.

The PCB Rule states, in pertinent part, that each owner or operator of a facility, other than a commercial storer or disposer of PCB waste, using or storing at any one time at least one PCB Transformer, 50 PCB Large Capacitors, or 45 kg (99.4 lbs) of PCBs contained in PCB Container(s) must develop and maintain annual records (manifests, certificates of destruction, etc.) and written annual documents of the disposition of all PCBs and PCB Items.

Annual documents have been required since July 1, 1978. The documents must cover a calendar year (January 1 through December 31) except for the following years:

Year	Beginning	Ending
1978	7/ 1/78	12/31/78
1989	1/ 1/89	2/ 5/90
1990	2/ 6/90	12/31/90

Each document must be prepared by July 1 (i.e. Facilities have six months to prepare annual documents for a given year). The documents must be maintained in their entirety for three (3) years after the facility ceases using or storing PCBs in the quantities prescribed above.

Records must be maintained at the facility. Do not submit records and documents to EPA. A central facility may maintain annual records and documents for multiple facilities provided these records are available for inspection by representatives of EPA during normal working hours and each owner or operator of the facility knows the location of the records.

Definitions (See 40 C.F.R. Section 761.3)
PCB Transformer means any transformer that contains 500 ppm PCB or greater.
PCB Large Capacitor means a capacitor which contains 1.36 kg (3 lbs.) or more of dielectric fluid.

Densities (Approximate)
3.64 kg/gal (8.0 lbs/gal) for PCB contaminated mineral oil.
5.68 kg/gal (12.5 lbs/gal) for PCB tradename fluids.

PCB Transformers in Service
at the End of 19 92

Location	Serial Number	Manufacturer	Tradename or PCB Concentration (ppm) of Dielectric Fluid	Volume of Dielectric Fluid (gal.)	Weight of PCB Dielectric Fluid in Transformer (kg)	
Main Office Annex 710 AS	E686366	GE	100,000	165	563.57	
Shops Bldg. 480 V 949 BH	H882330	GE	100,000	156	532.83	
Shops Bldg. 2300 V 951 BH	H882331	GE	100,000	140	478.18	
Near AP Sub 849 J	F958233-B	GE	406 (1989) / 992 (1992)	146	498.68	*
210-480 V 852 AJ	F959826-B	GE	130 (1989) / 551 (1992)	146	498.68	*
Sulfur Plant - North End 926 BD	F959526-A	GE	392 (1989) / 792 (1992)	146	498.68	*
2 Farm 847 BC	F958234	GE	245 (1989) / 510 + 464 (1992)	190	648.96	*

Totals: Number of PCB Transformers — Weight

	7		3719.58

* ~~PCB~~ Contaminated prior to 1992 Testing.
>500ppm PCBs results (1992)

PCB weight
7.53 Lbs/621
2.2046 Kg

Use additional sheets if necessary. This form is provided only as an example. Use of this form is not required by the PCB Rule, but proper completion of this form will aid in your complying with the PCB Rule. You should be familiar with the entire PCB Rule before completing this form.

EPA Region III TSCA Enf Sec Rev 3/9/90

PCB Large Capacitors in Service at the End of 19 92

Location	Serial Number	Manufacturer	Tradename or PCB Concentration (ppm) of Dielectric Fluid	Volume of Dielectric Fluid (gal.)	Weight of PCB Dielectric Fluid in Capacitor (kg)
	Not	Applicable			

Totals: Number of PCB Large Capacitors

Use additional sheets if necessary. This form is provided only as an example. Use of this form is not required by the PCB Rule, but proper completion of this form will aid in your complying with the PCB Rule. You should be familiar with the entire PCB Rule before completing this form.

EPA Region III TSCA Enf Sec Rev 3/9/90

PCBs and PCB Items in PCB Containers in Service at the End of 19 92

Container Number	Description of Container Contents and Size (Include PCB concentrations)	Weight of PCBs in Container (kg)
	Not Applicable	

Totals:

Number of PCB Containers		Weight

Use additional sheets if necessary. This form is provided only as an example. Use of this form is not required by the PCB Rule, but proper completion of this form will aid in your complying with the PCB Rule. You should be familiar with the entire PCB Rule before completing this form.

EPA Region III TSCA Enf Sec Rev 3/9/90

PCB Transformers Removed from Service for Disposal in 19 92

Serial Number	Manufacturer	Tradename or PCB Concentration (ppm) of Dielectric Fluid	Volume of Dielectic Fluid (gal.)	Weight of PCB Fluid in Transformer (kg)	Manifest Number (5 digits)	Date Removed from Service for Disposal	Date Placed into Transport for Off-site Storage/Disposal	Date Off-site Receipt Confirmed	Confirmation of Off-site Receipt (include facility representative and storer/disposer representative)	Date of Disposal
			(None removed from service in 1992)	Not Applicable						

Totals: Number of PCB Transformers _____ Weight (kg) _____

Use additional sheets if necessary. This form is provided only as an example. Use of this form is not required by the PCB Rule, but proper completion of this form will aid in your complying with the PCB Rule. You should be familiar with the entire PCB Rule before completing this form.

EPA Region III TSCA Enf Sec Rev 3/9/90

PCB Large Capacitors Removed from Service for Disposal in 19 92

Serial Number									Totals: Number of PCB Large Capacitors
Manufacturer									
Tradename or PCB Concentration (ppm) of Dielectric Fluid									
Volume of Dielectic Fluid (gal.)									
Weight of PCB Fluid in Capacitor (kg)							Not		Weight (kg)
Manifest Number (5 digits)							Applicable		
Date Removed from Service for Disposal									
Date Placed into Transport for Off-site Storage/Disposal									
Date Off-site Receipt Confirmed									
Confirmation of Off-site Receipt (include facility representative and storer/disposer representative)									
Date of Disposal									

Use additional sheets if necessary. This form is provided only as an example. Use of this form is not required by the PCB Rule, but proper completion of this form will aid in your complying with the PCB Rule. You should be familiar with the entire PCB Rule before completing this form.

EPA Region III TSCA Enf Sec Rev 3/9/90

PCB Containers Removed from Service for Disposal in 1992

Container Number	Description (include type(s), volume(s), and tradename(s) or PCB concentration(s) (ppm) of material(s))	Weight of Material(s) in Container (kg)	Manifest Number (5 digits)	Date PCBs First Placed Into Container for Disposal	Date Placed into Transport for Off-site Storage/Disposal	Date Off-site Receipt Confirmed	Confirmation of Off-site Receipt (include facility representative and storer/disposer representative)	Date of Disposal
	PCB Oil from 710AS,	145.28 ~~320~~	01520	10/27/92	10/30/92	1/27/93	1/27/93	12/10/92
	949 BH + 951 BH	Not ~~Applicable~~						
	Transformer Retrofilling							

Totals:

Number of PCB Containers		Weight (kg)	

Use additional sheets if necessary. This form is provided only as an example. Use of this form is not required by the PCB Rule, but proper completion of this form will aid in your complying with the PCB Rule. You should be familiar with the entire PCB Rule before completing this form.

EPA Region III TSCA Enf Sec Rev 3/9/90

Other PCB Articles Removed from Service for Disposal in 19 92

Serial Number									
Description (include manufacturer, tradename or PCB concentration (ppm), and volume)									
Weight of PCBs in Article (kg)							Not		
Manifest Number (5 digits)							Appl		
Date Removed from Service for Disposal							icable		
Date Placed into Transport for Off-site Storage/Disposal									
Date Off-site Receipt Confirmed									
Confirmation of Off-site Receipt (include facility representative and storer/disposer representative)									
Date of Disposal									
Totals: Number of Other PCB Articles									
Weight (kg)									

Use additional sheets if necessary. This form is provided only as an example. Use of this form is not required by the PCB Rule, but proper completion of this form will aid in your complying with the PCB Rule. You should be familiar with the entire PCB Rule before completing this form.

EPA Region III TSCA Enf Sec Rev 3/9/90

PCB Article Containers Removed from Service for Disposal in 19 92

Totals: Number of PCB Article Containers									Container Number
									Description (include type(s), volume(s), and tradename(s) or PCB concentration(s) (ppm) of PCB Article(s))
Weight (kg)									Total Weight of PCB Article(s) in Container (kg)
							Not Applicable		Manifest Number (5 digits)
									Date PCB Articles First Placed Into Container for Disposal
									Date Placed into Transport for Off-site Storage/Disposal
									Date Off-site Receipt Confirmed
									Confirmation of Off-site Receipt (include facility representative and storer/disposer representative)
									Date of Disposal

Use additional sheets if necessary. This form is provided only as an example. Use of this form is not required by the PCB Rule, but proper completion of this form will aid in your complying with the PCB Rule. You should be familiar with the entire PCB Rule before completing this form.

EPA Region III TSCA Enf Sec Rev 3/9/90

Bulk PCB Wastes Removed from Service for Disposal in 19 92

Bulk Container Number	Description (include source(s), volume(s), and tradename(s) or PCB concentration(s) (ppm) of bulk PCBs)	Weight of PCB Fluid in Bulk Container (kg)	Manifest Number (5 digits)	Date PCBs First Placed Into Bulk Container for Disposal	Date Placed into Transport for Off-site Storage/Disposal	Date Off-site Receipt Confirmed	Confirmation of Off-site Receipt (include facility representative and storer/disposer representative)	Date of Disposal
	Debris from Retrofilling	54.48	01520	10/27/92	10/30/92	1/27/93	1/27/93	12/10/92
	710AS, 949BH + 951BH	~~Not~~	~~Applicable~~					
	Transformers							
Totals:		Weight (kg)						

Use additional sheets if necessary. This form is provided only as an example. Use of this form is not required by the PCB Rule, but proper completion of this form will aid in your complying with the PCB Rule. You should be familiar with the entire PCB Rule before completing this form.
EPA Region III TSCA Enf Sec Rev 3/9/90

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

x OR

Form Approved. OMB No. 2060-0039. Expires 9-30-92

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. PAD00[illegible]9700 / PAD00[illegible]
Manifest Document No. 01520
2. Page 1 of 3
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Sun Company, Inc. (R&M)
3144 Passyunk Avenue
Philadelphia PA 19145

4. Generator's Phone (215) 339-2611

A. State Generator's ID

5. Transporter 1 Company Name
Hazmat Envrionmental Group, Inc.

6. US EPA ID Number
N. Y. D. 9. 8. 0. 7. 6. 9. 9. 4. 7

C. State Transporter's ID PHM 0535

D. Transporter's Phone (216) 825-3200

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
ENSR Operations
4160 Perimeter Road
Columbus OH 43228

10. US EPA ID Number
O. H. D. 9. 8. 1. 9. 6. 0. 1. 2. 3

G. State Facility's ID

H. Facility's Phone

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

	HM	11. US DOT Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a.	X	Hazardous substance, liquid, n.o.s., ORM-E, NA9188 (Polychlorinated biphenyls)RQ 0.454 K	9	D M	2880	K
b.	X	Hazardous substance , solid, n.o.s., ORM-E, NA9188 (Polychlorinated biphenyls)RQ 0.454 K	3	D M	360	K
c.						
d.						

GENERATOR

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Job #350398

All weights are estimated.
See attached continuation form for detailed information.
All correspondence should be sent to ENSR, 1700 Gateway SE, Caston, OH 44707

Emergency Response:
216-452-0837
1-800-759-3677

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Timothy Ley
Signature: Timothy Ley
Month 10 Day 30 Year 92

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Gary L PLATT
Signature: Gary L Platt
Month 10 Day 30 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name
Signature
Month Day Year

EPA Form 8700-22 (Rev. 9-88) Previous edition obsolete.

GENERATOR'S COPY

[redacted] MANIFEST CONTINUATION FORM PAGE 3 OF 3

MANIFEST NO. ENS 007740 CUSTOMER Sun Co. Inc.

TOTAL ITEMS SHIPPED 3 drums SITE ADDRESS 3144 Passyunk Ave.

CONTACT NAME Angelo Defilipo Philadelphia, Pa. 19145

PHONE 215-339-2611

PREPARED BY R. Alley

NO.	MFST LINE ITEM abcd	ITEM SERIAL #	REMOVED FROM SERVICE DATE	ENSR WASTE CODE	PCB/ PPM	CONTENTS	KGS Pounds x 0.454
1		102992-4-05-001	10-29-92	05	>500	Debris	120
2		102992-4-05-002	10-29-92	05	>500	Debris	120
3		102992-4-05-003	10-29-92	05	>500	Debris	120
4							
5							
6							
7							
8							
9							
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12							
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17							
18							
19							
20							
21							
22							
23							
24							

ENSR [illegible]

ENSR

MANIFEST CONTINUATION FORM

MANIFEST NO. ENS 007740

CUSTOMER Sun Co. Inc.

TOTAL ITEMS SHIPPED 9 drums

SITE ADDRESS 3144 Passyunk Ave.
Philadelphia, Pa. 19145

CONTACT NAME Angelo DeFilippo

PHONE 215-339-2611

PREPARED BY R. Alley

NO.	MFST LINE ITEM abcd	ITEM SERIAL #	REMOVED FROM SERVICE DATE	ENSR WASTE CODE	PCB/ PPM	CONTENTS	KGS Pounds x 0.454
1		102792-4-15-001	10-27-92	15	>500	Gskarel	320
2			10-27-92				
3			10-27-92				
4			10-28-92				
5			10-28-92				
6			10-28-92				
7			10-29-92				
8			10-29-92	✓	✓	✓	✓
9		102792-4-15-009	10-29-92	15	>500	Gskarel	320
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

ENSR

ENSR Operations
1700 Gateway Boulevard S.E.
Canton, Ohio 44707
216-452-0837

January 27, 1993

Mr. Timothy Roy
SUN COMPANY, INC. (R&M)
3144 Passyunk Avenue
Philadelphia, PA 19145

Dear Mr. Roy:

Attached is your copy of the Certificates of Destruction for waste removed from your facility. The manifest number that appears on the certificate, if different from your manifest copy, reflects the re-manifesting of your materials from our warehouse facility to the destruction facility. The material was destroyed in accordance with 40 CFR 761. Please refer to the attached PCB tracking report for more information on date, destruction facility used, and other pertinent information on the movement of your materials.

If you have additional questions please contact me at (216) 430-4573.

Sincerely,

Diane K. Flesher
Central Waste Management Division

Attachment

cc: Job File #350398

ENSR

ENSR Operations
1700 Gateway Boulevard S.E.
Canton, Ohio 44707
216-452-0837

Job Number 350398
Certificate Number 149428-57709-40
Disposer's Manifest 00501574

ENSR OPERATIONS

certifies that all or part (as indicated on the attached PCB Tracking Report) of the PCB Waste received from:

SUN COMPANY, INC. (R&M)
3144 Passyunk Avenue
Philadelphia, PA 19145
on Manifest No. ENS007740

has been destroyed as of 11/20/92 in accordance with 40 CFR 761 by Rollins Environmental Services, Deer Park, TX 77536, (EPA ID No. TXD055141378).

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 responsiblity for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

FOR: ENSR OPERATIONS
1700 Gateway Blvd SE
Canton, OH 44707

Diane K. Flesher

By: Diane K. Flesher
PCB Waste Management Division

E N S R O P E R A T I O N S

PCB TRACKING REPORT

(PCBP27)
01/25/93

Job Number: 350398 Customer Name: SUN COMPANY, INC. (R&M)

Transformer Number: 350398

Cycle Number: DI

Unique Drum/Article Number	Mat Code	Qty in LBS	Qty in Kilo	Removal from SVC for Disp	Transportation Document 1	Date last Warehouse Received	Last Warehouse Location	Henderson Lot Number	Transportation Document to Disposal	Location Disposal	Date of Destruct	Certificate Number
102792415-001	PCB	661	300	10/27/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501574	ROLLINS ENVIRON.	11/20/92	149428-57709-40
102792415-002	PCB	661	300	10/27/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501574	ROLLINS ENVIRON.	11/20/92	149428-57709-40
102792415-003	PCB	661	300	10/27/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501574	ROLLINS ENVIRON.	11/20/92	149428-57709-40
102792415-004	PCB	661	300	10/28/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501574	ROLLINS ENVIRON.	11/20/92	149428-57709-40
102792415-005	PCB	661	300	10/28/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501574	ROLLINS ENVIRON.	11/20/92	149428-57709-40
102792415-006	PCB	661	300	10/28/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501574	ROLLINS ENVIRON.	11/20/92	149428-57709-40
102792415-007	PCB	661	300	10/29/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501574	ROLLINS ENVIRON.	11/20/92	149428-57709-40
102792415-008	PCB	661	300	10/29/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501574	ROLLINS ENVIRON.	11/20/92	149428-57709-40
102792415-009	PCB	661	300	10/29/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501574	ROLLINS ENVIRON.	11/20/92	149428-57709-40
102992405-001	SOL	76	34	10/29/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501575	ROLLINS ENVIRON.	12/10/92	149856-55144-48
102992405-002	SOL	61	28	10/29/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501575	ROLLINS ENVIRON.	12/10/92	149856-55144-48
102992405-003	SOL	76	34	10/29/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501575	ROLLINS ENVIRON.	12/10/92	149856-55144-48

12

ENSR

ENSR Operations
1700 Gateway Boulevard S.E.
Canton, Ohio 44707
216-452-0837

March 4, 1993

Mr. Timothy Roy
SUN COMPANY, INC. (R&M)
3144 Passyunk Avenue
Philadelphia, PA 19145

Dear Mr. Roy:

Attached is your copy of the Certificates of Destruction for waste removed from your facility. The manifest number that appears on the certificate, if different from your manifest copy, reflects the re-manifesting of your materials from our warehouse facility to the destruction facility. The material was destroyed in accordance with 40 CFR 761. Please refer to the attached PCB tracking report for more information on date, destruction facility used, and other pertinent information on the movement of your materials.

If you have additional questions please contact me at (216) 430-4573.

Sincerely,

Diane K. Flesher
Central Waste Management Division

Attachment

cc: Job File #350398

ENSR

ENSR Operations
1700 Gateway Boulevard S.E.
Canton, Ohio 44707
216-452-0837

Job Number 350398
Certificate Number 149856-55144-48
Disposer's Manifest 00501575

ENSR OPERATIONS

certifies that all or part (as indicated on the attached PCB Tracking Report) of the PCB Waste received from:

SUN COMPANY, INC. (R&M)
3144 Passyunk Avenue
Philadelphia, PA 19145
on Manifest No. ENS007740

has been destroyed as of 12/10/92 in accordance with 40 CFR 761 by Rollins Environmental Services, Deer Park, TX 77536, (EPA ID No. TXD055141378).

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 responsiblity for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

FOR: ENSR OPERATIONS
1700 Gateway Blvd SE
Canton, OH 44707

Diane K. Flesher

By: Diane K. Flesher
PCB Waste Management Division

ENSR OPERATIONS (PCBP27)

PCB TRACKING REPORT 02/22/93

Job Number: 350398 Customer Name: SUN COMPANY, INC. (R&M)

Transformer Number: 350398

Cycle Number: DI

Unique Drum/Article Number	Mat Code	Qty in LBS	Qty in Kilo	Removal from SVC for Disp	Transportation Document 1	Date last Warehouse Received	Last Warehouse Location	Henderson Lot Number	Transportation Document to Disposal	Location Disposal	Date of Destruct	Certificate Number
102792415-001	PCB	661	300	10/27/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501574	ROLLINS ENVIRON.	11/20/92	149428-57709-40
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102792415-003	PCB	661	300	10/27/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501574	ROLLINS ENVIRON.	11/20/92	149428-57709-40
102792415-004	PCB	661	300	10/28/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501574	ROLLINS ENVIRON.	11/20/92	149428-57709-40
102792415-005	PCB	661	300	10/28/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501574	ROLLINS ENVIRON.	11/20/92	149428-57709-40
102792415-006	PCB	661	300	10/28/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501574	ROLLINS ENVIRON.	11/20/92	149428-57709-40
102792415-007	PCB	661	300	10/29/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501574	ROLLINS ENVIRON.	11/20/92	149428-57709-40
102792415-008	PCB	661	300	10/29/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501574	ROLLINS ENVIRON.	11/20/92	149428-57709-40
102792415-009	PCB	661	300	10/29/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501574	ROLLINS ENVIRON.	11/20/92	149428-57709-40
102992405-001	SOL	76	34	10/29/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501575	ROLLINS ENVIRON.	12/10/92	149856-55144-48
102992405-002	SOL	61	28	10/29/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501575	ROLLINS ENVIRON.	12/10/92	149856-55144-48
102992405-003	SOL	76	34	10/29/92	ENS007740	11/02/92	ENSR - COLUMBUS		00501575	ROLLINS ENVIRON.	12/10/92	149856-55144-48

Subject Philadelphia Refinery PCB Status Report.

Interoffice

Correspondence

SUN

Date May 20, 1993

Location Philadelphia

From A. DeFillipo AD

To D.A. Rocklage

Attached is a detailed, as well as a summary report, on the status of the PCB or PCB contaminated large transformers in the Philadelphia Refinery.

The summary report gives a quick overview, as well as projected spending. The detailed report lists all the transformers which have tested at greater than 50 PPM in any of the three major tests done, as well as their current disposition. The second set of tests shown in 1992 were done to verify results which changed considerably from the previous results.

During the last test cycle, many small pole top type transformers were tested for the first time. A report on the action plan for these transformers will be issued in the near future.

If you have any questions, please feel free to contact A. DeFillipo at ext. 2611.

cc: T. Roy
M. W. Slough
V. S. Price
B. Fleck - 10 PC
H. Burr - 10 PC

SUN CO. INC.,
DELAWARE VALLEY REFINING COMPLEX
PHILADELPHIA REFINERY

PCB OR PCB CONTAMINATED LARGE TRANSFORMERS
SORTED BY 1992 PCB CONTENT

XFMR. NO.	SUB	LOCATION	PCB (PPM) 1981	1989	1992	1992	SERIAL NO.	KVA RATING	OIL CAP. (GALS)	COMMENTS
710	AS	MAIN OFFICE ANNEX	PURE	PURE	100000	N/A	E686366	300	165	NOTE 6
949	BH	SHOPS BLDG – 480 V	PURE	PURE	100000	N/A	H882330	1000	156	NOTE 6
951	BH	SHOPS BLDG – 2300 V	PURE	PURE	100000	N/A	H882331	500	140	NOTE 6
849	J	NEAR AP SUB	400	406	1150	992	F958233–B	1000	146	NOTE 1
852	AJ	210 – 480 V	340	130	969	851	F959826–B	1000	146	TO BE DONE IN 93 T/A AT 210
926	BD	SULFUR PLANT – N END	110	392	907	792	F959826A	1000	146	NOTE 4
847	BC	2 FARM	1790	245	510	464	F958234	1500	190	NOTE 1
845	BA	BA – EMERG LTG			480	N/A	N/A	112.5		RETRO 2/05/93 – NEED RETEST
751	W	S.W. BOILER FDWTR	620	315	469	N/A	E688764	2500	550	NOTE 1
672	AP	AP SUB – 480 V EAST	400	275	392	348	C–861471A	1500	500	TO BE DONE IN 4/93 T/A AT 865
819	BA	CO2 PLANT	118	200	364	N/A	F960749	3750	760	RETRO 2/05/93 – NEED RETEST
738	AW	BELMONT TERMINAL	524	209	326	N/A	E689449	1000	250	NOTE 1
881	BE	BE SUB – 480 V SOUTH	175	144	211	N/A	G852315–B	2500	320	RETRO 3/18/93 – NEED RETEST
875	BE	BE SUB – 2300 V NORTH	177	128	208	N/A	G852317–A	2000	380	RETRO 3/18/93 – NEED RETEST
890	BE	PC1	179	134	195	N/A	G859896	10000	1380	RETRO 3/18/93 – NEED RETEST
813	BA	2C1	70		181	206	F960187	10000	1430	RETRO 2/05/93 – NEED RETEST
555	AG	AG SUB – LTG XFMR			169	N/A	B282656	25		NOTE5
879	BE	BE SUB – 480 V NORTH	90	126	167	N/A	G852315–A	2500	320	RETRO 3/18/93 – NEED RETEST
930	AD	5 FARM	240	162	166	N/A	8625	600		NOTE 1
242	Y	BOILER HOUSE	110	95	131	N/A	5585997	200	100	NOTE 2
244	Y	BOILER HOUSE	107	137	127	N/A	5585999	200	100	NOTE 2
702	AN	57 PUMP HOUSE – N YD	105	80	123	N/A	3333442	500	218	NOTE 1
817	BA	3C1A	1680	1439	108	N/A	F960189–A	5000	850	NOTE 3
871		NEAR 34 A/C			103	N/A	70D5191	112.5		O.O.S. – DISPOSE OF ASAP
815	BA	3C1B	210	1770	103	N/A	F960189–B	5000	850	NOTE 3
243	Y	BOILER HOUSE	112	80	99	N/A	5585998	200	100	NOTE 2
716	AM	4 FARM	95	86	95	N/A	E687663A	500	210	NOTE 1
750	AL	2 FARM	280	74	88	N/A	E693326	500	175	NOTE 1
714	AU	4 FARM – S. END	70	76	84	N/A	E687663–B	500	210	NOTE 1

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PCB OR PCB CONTAMINATED LARGE TRANSFORMERS

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XFMR. NO.	SUB	LOCATION	PCB (PPM) 1981	1989	1992	1992	SERIAL NO.	KVA RATING	OIL CAP. (GALS)	COMMENTS
553	AG	AG SUB – LTG XFMR			82	N/A	B282655	25		NOTE 5
554	AG	AG SUB – LTG XFMR			80	N/A	B284670	25		NOTE 5
591	AK	S. OF IN–LINE BLENDER	95		80	N/A	C156279	2500	719	NOTE 1
807	BA	BA SUB – 480 V NORTH	550	715	44	46	F956831–A	2500	420	RETROFILLED 11/06/91
809	BA	BA SUB – 480 V SOUTH	490		43	N/A	F956831–B	2500	420	RETROFILLED 9/18/85
239	AG	NYWWTP	28	54	37	37	5580058	200	100	NON PCB TRANSFORMER
581	AJ	AJ SUB – 2300 V EAST	21	71	27	N/A	5068293	2500		RETEST TO VERIFY NON PCB
573	BG	4 TANK FARM – N END	21	56	27	28	5068323	5000	1324	NON PCB TRANSFORMER
674	AP	AP SUB – 480 V WEST	292	32	20	17	C–861471B	1500	500	RETROFILLED 8/25/85
803	BA	BA SUB – 2300 V NORTH	350	367	11	N/A	F960182–A	7500	1320	RETROFILLED 5/25/90
805	BA	BA SUB – 2300 V SOUTH	290	230	11	43	F960182–B	7500	1320	RETROFILLED 11/07/91
877	BE	BE SUB – 2300 V SOUTH	154	12	5	N/A	G852317–B	2000	380	RETROFILLED 7/30/85
755	AY	AY SUB – 2300 V NORTH	37	60	1	2	11019–64	2000	465	NON PCB TRANSFORMER
756	AY	AY SUB – 2300 V SOUTH	2	85	1	2	11018–64	2000	465	NON PCB TRANSFORMER
811	BA	1C1	40	110	1	17	F960285	7500	1220	RETROFILLED 11/06/91

SUN CO., INC
DELAWARE VALLEY REFINING COMPLEX
PHILADELPHIA REFINERY

PCB OR PCB CONTAMINATED LARGE TRANSFORMERS

NOTES

1.) These transformers serve single-ended substations, and, in general, can not be shut down without some impact on operations. Engineering is currently investigating options to retrofill them using an on-line processor which does not require a shutdown, as well as the possibilities of obtaining the required shutdowns. We anticipate completion of most of these transformers by the end of the year.

2.) These transformers are the only source of 480 V power to the boiler house. Due to their size and condition they are not candidates for an on-line processor, thus this will be an extremely difficult job. Engineering will begin working with operations shortly to develop some options.

3.) These transformers were retrofilled in June 1991, in order to get the PCB level down to below 500 PPM so they could receive further servicing. During the recent complex turnaround, they had new radiators installed, and were again retrofilled. They will be retested after the required 90 day waiting period, and it is expected that they can then be classified as non - PCB.

4.) Engineering is currently working on a project to modify or replace BD substation. Since this transformer is so difficult to get out of service, the PCB work will be coordinated with the shutdowns required to implement this project. Completion is not anticipated till some time in 1994.

5.) There is currently a project in final engineering stages to modify AG substation. The PCB work will be coordinated with this project. Completion is anticipated by mid 93.

6.) These transformers are currently undergoing a re-classification process which involves a combination of retrofill and on-line processors. The transformers will be periodically re-tested, and will be reclassified as PCB contaminated, and then eventually non - PCB. The process should be completed some time in 1994.

SUN CO. INC.,
DELAWARE VALLEY REFINING COMPLEX
PHILADELPHIA REFINERY

PCB OR PCB CONTAMINATED LARGE TRANSFORMERS
SUMMARY REPORT
5/20/93

PPM	QUAN	DISPOSITION	BUDGET 1993	BUDGET 1994
> 500	7	3 PURE PCB'S UNDERGOING ON-LINE PROCESSING. 3 ARE PLANNED FOR 1993, AND ONE WILL BE COORDINATED WITH AN AFC IN 1994.	$10,000	$10,000
50 TO 500	25	9 COMPLETED, AWAITING RETEST, 12 ARE PLANNED FOR 1993, AND 4 WILL BE DISPOSED OF.	$100,000	N/A
		TOTAL 1993 BUDGET (BALANCE)	$110,000	
		TOTAL 1994 BUDGET		$10,000

Subject Philadelphia Refinery PCB Status Report Update.

Interoffice Correspondence

SUN

Date June 28, 1993

Location Philadelphia

From A. DeFillipo AD

To D.A. Rocklage

Attached is revised copy of the detailed report on the status of the PCB or PCB contaminated large transformers in the Philadelphia Refinery. Revisions from the previous report are indicated by shading. It is my intention to issue quarterly updates to this report.

If you have any questions, please contact A. DeFillipo at ext. 2611.

cc: T. Roy
M.W. Slough
V.S. Price
B. Fleck - 10 PC
H. Burr - 10 PC

SUN CO. INC.,
DELAWARE VALLEY REFINING COMPLEX
PHILADELPHIA REFINERY

PCB OR PCB CONTAMINATED LARGE TRANSFORMERS

SORTED BY 1992 PCB CONTENT

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SUN CO., INC
DELAWARE VALLEY REFINING COMPLEX
PHILADELPHIA REFINERY

PCB OR PCB CONTAMINATED LARGE TRANSFORMERS
Revised - June 28, 1993

NOTES

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SUN REFINING AND MARKETING COMPANY
PHILADELPHIA REFINERY

4th Quarter 1992

PCB Transformer Quarterly Inspection Report

Transformer #	Substation	PCB Concentration (ppm)	NO LEAK	LEAKING	Estimated Amount	Date	Needs Label?	Other Remarks
949	BH	PYRANOL	✓			12-18-92		
951	BH	PYRANOL	✓			12-18-92		
710	AS	PYRANOL	✓			1-11-93		
807	BA	715	✓			1-11-93		
~~917~~ 1096	WY	?						Tested 10-23-92 Less than 1 PPM Remove from List 7.1.7
984	BK	?						Tested 10-23-92 Less than 1PPM Remove from List 7.1.7.

SUN REFINING AND MARKETING COMPANY
PHILADELPHIA REFINERY

3rd Quarter 1992

PCB Transformer Quarterly Inspection Report

Transformer #	Substation	PCB Concentration (ppm)	NO LEAK	LEAKING	Estimated Amount	Date	Needs Label?	Other Remarks
949	BH	PYRANOL	✓			7.14.92		
951	BH	PYRANOL	✓			7.14.92		
710	AS	PYRANOL	✓			7.14.92		
807	BA	715	✓			7.14.92		
917	WY	?	✓			7.14.92		
984	BK	?	✓			7.14.92		