GLOBAL ASSOCIATES

NAVAL INACTIVE SHIPS • BLDG. 52, NAVAL BASE • PHILADELPHIA, PA 19112-5095 • TELEPHONE (215) 897-6753

An OWL Company

Date: 17 July 1997

From: Safety, Health & QA Manager

To: COR - Robert Drayton
Via: Project Manager

Subject: **2nd POST ASBESTOS SURVEY ABOARD EX. FORREST SHERMAN DDG-931**

Reference: (a) NAVSEADETPORTSINST 5090.1, Chapter 3
Enclosure: (1) Corrected Discrepancies
(2) Lab Analysis Bulk/Air Sampling Eagle Industrial

1. Discrepancies were corrected 17 June 1997 through 09 July 1997, in accordance with reference (a). Enclosure (1) and (2) forwarded for your information and action.

Joseph W. Kennedy

Joseph W. Kennedy

Copy to: Inspection Department
Maintenance Department
Ship's File

EX. FORREST SHERMAN DDG-931
DISCREPANCY LISTING

COMPARTMENT NUMBER	COMPARTMENT NAME	DISCREPANCY	COMPLETION DATE
5-63-0-E	NO. 1 FIRE ROOM	SPILL - ABOVE 1B BOILER UPPER LEVEL AND LOWER LEVEL BEHIND 1B BOILER LOWER LEVEL	26 JUNE 1997
5-106-0-E	NO. 2 FIRE ROOM	SPILL - UPPER AND LOWER LEVEL	26 JUNE 1997
5-125-0-E	NO. 2 ENGINE ROOM	SPILL LOWER LEVEL	26 JUNE 1997
1-100-2	GALLEY	SPILL	26 JUNE 1997

EX. FORREST SHERMAN DDG-931
Corrected Discrepancies

Total number of repairs completed: **489**

Total number of Bulk Samples: **16**

Total number of Air Samples: **14**

Total number of Danger Sign's: **6**

Total number of Caution Sign's: **10**

EX. FORREST SHERMAN DDG-931

ASBESTOS REPAIRS

AIR / BULK SAMPLES

DANGER / CAUTION SIGN'S POSTED

COMPARTMENT NUMBERS	COMPARTMENT NAME	NUMBER OF REPAIRS	BULK SAMPLE NUMBER	AIR SAMPLE NUMBER	DANGER SIGN'S POSTED	CAUTION SIGN'S POSTED
5-83-0-E	NO. 1 ENGINE ROOM	13 U/L 13 L/L	K061897005 K061897006 K061897007	K070997026		
5-63-0-E	NO. 1 FIRE ROOM	25 U/L 8 L/L	K061897002 K061897003 K061897004	K07099027		
2-141-0-L	CREWS BERTHING	4	K061897001	K070997017	1	2
5-106-0-E	NO.2 FIRE ROOM	50 U/L 50 L/L	K061897008 K061897009 K061897010	K070997028		
5-125-0-E	NO. 2 ENGINE ROOM	5 U/L 20 L/L	K061897011 K061897012 K061897013	K070997029		
1-47-1-L	OFFICER'S WARD ROOM	1				
1-53-0-L	WARD ROOM	1				
2-42-2-L	STATE ROOM	2				
2-39-2-A	REPAIR LOCKER #2	2				
2-23-2-L	CREWS BERTHING	10				

EX. FORREST SHERMAN DDG-931

ASBESTOS REPAIRS
AIR / BULK SAMPLES
DANGER / CAUTION SIGN'S POSTED

COMPARTMENT NUMBERS	COMPARTMENT NAME	NUMBER OF REPAIRS	BULK SAMPLE NUMBER	AIR SAMPLE NUMBER	DANGER SIGN'S POSTED	CAUTION SIGN'S POSTED
2-7-0-E	ANCHLOR WINDLASS	2	K061997014	K070997018	1	1
2-15-1-L	CREWS HEAD	14				
3-27-0-L	CREWS BERTHING	2				
2-39-0-L	CREWS BERTHING	7				
2-39-2-A	REPAIR LOCKER #1	2				
2-51-02-L	CREWS BERTHING	5				
1-65-1-Q	SICK BAY	8				
1-75-1-Q	PERSONNEL OFFICE	8				
1-82-3-Q	DISBURSING OFFICE	1				
1-82-1-L	TRUNK	1				
1-100-2	GALLEY	15	K06197015	K0709907019		
1-82-2-Q	VEGTABLE PREP	1				

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EX. FORREST SHERMAN DDG-931
ASBESTOS REPAIRS
AIR / BULK SAMPLES
DANGER / CAUTION SIGN'S POSTED

COMPARTMENT NUMBERS	COMPARTMENT NAME	NUMBER OF REPAIRS	BULK SAMPLE NUMBER	AIR SAMPLE NUMBER	DANGER SIGN'S POSTED	CAUTION SIGN'S POSTED
1-85-0-L	CREWS MESS	12		K070997020		
2-98-1-Q	PERSONNEL SERVICES	8				
2-93-3-E	A/C MACHINERY ROOM	3				
2-102-1-Q	LOG ROOM	2				
1-112-3-Q	CPO PANTRY	1				
1-143-1-L	CREWS HEAD	1				
1-141-0-L	PASSAGE	1				
1-129-1-L	CPO BERTHING	12				
1-125-2-L	PASSAGE	1	K06197016	K070997021	1	2
1-125-4-L	STATE ROOM	1				
1-114-2-L	STATE ROOM	1				
1-143-0-Q	LAUNDRY	8				
1-143-01-L	CREWS HEAD	9				

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EX. FORREST SHERMAN DDG-931
ASBESTOS REPAIRS
AIR / BULK SAMPLES
DANGER / CAUTION SIGN'S POSTED

COMPARTMENT NUMBERS	COMPARTMENT NAME	NUMBER OF REPAIRS	BULK SAMPLE NUMBER	AIR SAMPLE NUMBER	DANGER SIGN'S POSTED	CAUTION SIGN'S POSTED
2-149-0-L	CREWS BERTHING	15				
2-161-0-L	CREWS BERTHING	14				
2-189-4-Q	REPAIR PARTS OFFICE	1				
2-197-2-Q	AFT. STEERING	3				
2-177-1-Q	HT SHOP	50		K070997022		
01-60-1-L	CAPTAINS STATE ROOM	6				
01-71-1-L	OFFICERS HEAD	1				
01-81-1-L	PASSAGE	2				
01-93-0-Q	RADAR ROOM ANNEX	6				
01-89-1-Q	PASSAGE	3				
01-89-0	FAN ROOM	25		K070997023		
01-105-0-C	ECM ROOM #1	5				
01-97-2-M	TORPEDO MAC	3				

EX. FORREST SHERMAN DDG-931
ASBESTOS REPAIRS
AIR / BULK SAMPLES
DANGER / CAUTION SIGN'S POSTED

COMPARTMENT NUMBERS	COMPARTMENT NAME	NUMBER OF REPAIRS	BULK SAMPLE NUMBER	AIR SAMPLE NUMBER	DANGER SIGN'S POSTED	CAUTION SIGN'S POSTED
01-125-0-Q	WEAPONS OFFICE	7				
01-81-2-Q	TUBE SHOP	1		K070997024		
02-66-0-L	PASSAGE	1				
3-42-0-L	BERTHING	2				
1-132-0-L	HEAD	3				
1-141-0-L	PASSAGE	6		K070997025		
2-197-0-E	EMERGENCY GENERATOR RM	2				
2-194-2-Q	"A" GANG LOCKER	1				
01-82-1-Q	FAN ROOM	5				

EX. FORREST SHERMAN DDG-931

ASBESTOS REPAIRS

AIR / BULK SAMPLES

DANGER / CAUTION SIGN'S POSTED

COMPARTMENT NUMBERS	COMPARTMENT NAME	NUMBER OF REPAIRS	BULK SAMPLE NUMBER	AIR SAMPLE NUMBER	DANGER SIGN'S POSTED	CAUTION SIGN'S POSTED
5-83-0-E	NO. 1 ENGINE ROOM	13 U/L 13 L/L	K061897005 K061897006 K061897007	K070997026		
5-63-0-E	NO. 1 FIRE ROOM	25 U/L 8 L/L	K061897002 K061897003 K061897004	K07099027		
2-141-0-L	CREWS BERTHING	4	K061897001	K070997017	1	2
5-106-0-E	NO.2 FIRE ROOM	50 U/L 50 L/L	K061897008 K061897009 K061897010	K070997028		
5-125-0-E	NO. 2 ENGINE ROOM	5 U/L 20 L/L	K061897011 K061897012 K061897013	K070997029		
1-47-1-L	OFFICER'S WARD ROOM	1				
1-53-0-L	WARD ROOM	1				
2-42-2-L	STATE ROOM	2				
2-39-2-A	REPAIR LOCKER #2	2				
2-23-2-L	CREWS BERTHING	10				

EX. FORREST SHERMAN DDG-931

ASBESTOS REPAIRS
AIR / BULK SAMPLES
DANGER / CAUTION SIGN'S POSTED

COMPARTMENT NUMBERS	COMPARTMENT NAME	NUMBER OF REPAIRS	BULK SAMPLE NUMBER	AIR SAMPLE NUMBER	DANGER SIGN'S POSTED	CAUTION SIGN'S POSTED
2-7-0-E	ANCHLOR WINDLASS	2	K061997014	K070997018	1	1
2-15-1-L	CREWS HEAD	14				
3-27-0-L	CREWS BERTHING	2				
2-39-0-L	CREWS BERTHING	7				
2-39-2-A	REPAIR LOCKER #1	2				
2-51-02-L	CREWS BERTHING	5				
1-65-1-Q	SICK BAY	8				
1-75-1-Q	PERSONNEL OFFICE	8				
1-82-3-Q	DISBURSING OFFICE	1				
1-82-1-L	TRUNK	1				
1-100-2	GALLEY	15	K06197015	K0709907019		
1-82-2-Q	VEGTABLE PREP	1				

EX. FORREST SHERMAN DDG-931
ASBESTOS REPAIRS
AIR / BULK SAMPLES
DANGER / CAUTION SIGN'S POSTED

COMPARTMENT NUMBERS	COMPARTMENT NAME	NUMBER OF REPAIRS	BULK SAMPLE NUMBER	AIR SAMPLE NUMBER	DANGER SIGN'S POSTED	CAUTION SIGN'S POSTED
1-85-0-L	CREWS MESS	12		K070997020		
2-98-1-Q	PERSONNEL SERVICES	8				
2-93-3-E	A/C MACHINERY ROOM	3				
2-102-1-Q	LOG ROOM	2				
1-112-3-Q	CPO PANTRY	1				
1-143-1-L	CREWS HEAD	1				
1-141-0-L	PASSAGE	1				
1-129-1-L	CPO BERTHING	12				
1-125-2-L	PASSAGE	1	K06197016	K070997021	1	2
1-125-4-L	STATE ROOM	1				
1-114-2-L	STATE ROOM	1				
1-143-0-Q	LAUNDRY	8				
1-143-01-L	CREWS HEAD	9				

EX. FORREST SHERMAN DDG-931
ASBESTOS REPAIRS
AIR / BULK SAMPLES
DANGER / CAUTION SIGN'S POSTED

COMPARTMENT NUMBERS	COMPARTMENT NAME	NUMBER OF REPAIRS	BULK SAMPLE NUMBER	AIR SAMPLE NUMBER	DANGER SIGN'S POSTED	CAUTION SIGN'S POSTED
2-149-0-L	CREWS BERTHING	15				
2-161-0-L	CREWS BERTHING	14				
2-189-4-Q	REPAIR PARTS OFFICE	1				
2-197-2-Q	AFT. STEERING	3				
2-177-1-Q	HT SHOP	50		K070997022		
01-60-1-L	CAPTAINS STATE ROOM	6				
01-71-1-L	OFFICERS HEAD	1				
01-81-1-L	PASSAGE	2				
01-93-0-Q	RADAR ROOM ANNEX	6				
01-89-1-Q	PASSAGE	3				
01-89-0	FAN ROOM	25		K070997023		
01-105-0-C	ECM ROOM #1	5				
01-97-2-M	TORPEDO MAC	3				

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EX. FORREST SHERMAN DDG-931
ASBESTOS REPAIRS
AIR / BULK SAMPLES
DANGER / CAUTION SIGN'S POSTED

COMPARTMENT NUMBERS	COMPARTMENT NAME	NUMBER OF REPAIRS	BULK SAMPLE NUMBER	AIR SAMPLE NUMBER	DANGER SIGN'S POSTED	CAUTION SIGN'S POSTED
01-125-0-Q	WEAPONS OFFICE	7				
01-81-2-Q	TUBE SHOP	1		K070997024		
02-66-0-L	PASSAGE	1				
3-42-0-L	BERTHING	2				
1-132-0-L	HEAD	3				
1-141-0-L	PASSAGE	6		K070997025		
2-197-0-E	EMERGENCY GENERATOR RM	2				
2-194-2-Q	"A" GANG LOCKER	1				
01-82-1-Q	FAN ROOM	5				

359 DRESHER ROAD
HORSHAM, PA 19044
(215) 672-6088
FAX (215) 443-0899

(14)

EAGLE

INDUSTRIAL HYGIENE ASSOC. INC.

June27, 1997

Mr. Joseph Kennedy
Global Associates-NISMF
Building 52, Naval Base
Philadelphia, PA 19112-5095

Dear Mr. Kennedy,

Please find enclosed the following Reports of Asbestos Analysis:

#970672 for FORREST SHERMAN DDG-931
#970673 for Ex. Ricketts DDG-5 TDL# 023-060

If we can be of further assistance, please call the office during normal business hours.

Sincerely,

Marie Sharp

Marie Sharp
Office Manager

Enclosures

EAGLE INDUSTRIAL HYGIENE ASSOCIATES INC.
CHAIN OF CUSTODY RECORD

970699

(15)

Client:
Global Associates - NISMF
Building #52, Naval Base
Philadelphia, PA 19112-5095

Point of Contact
Joe Kennedy
Phone Number:
(215)897-6755

Project I.D. / TDL #
FORREST SHERMAN DDG-931 TDL#023-060 POST Asbestos)

BPA CAll Number:
BPA# 1616

Date & Time Results Required /
JUNE 30,1997

Special Instructions / Comments:
FAX (215)897-5625

Field Sample #	Anlyte	Sample Type	Analysis Requested	Decription
K061897001	ASB	Bulk	PLM	2-141-0-L CREWS BERTHING
K061897002	ASB	BULK	PLM	5-63-0-E NO.1 FIRE ROOM U/L
K061897003	ASB	BULK	PLM	5-63-0-E NO.1 FIRE ROOM L/L
K061897004	ASB	BULK	PLM	5-63-0-E NO.1 FIRE ROOM L/L
K061897005	ASB	BULK	PLM	5-83-0-E NO.1 ENGINE ROOM U/L
K061897006	ASB	BULK	PLM	5-83-0-E NO.1 ENGINE ROOM L/L
K061897007	ASB	BULK	PLM	5-83-0-E NO.1 ENGINE ROOM L/L
K061897008	ASB	BULK	PLM	5-106-0-E NO.2 FIRE ROOM U/L
K061897009	ASB	BULK	PLM	5-106-0-E NO.2 FIRE ROOM U/L
K061897010	ASB	BULK	PLM	5-106-0-E NO.2 FIRE ROOM L/L
K061897011	ASB	BULK	PLM	5-125-0-E NO.2 ENGINE ROOM U/L
K061897012	ASB	BULK	PLM	5-125-0-E NO.2 ENGINE ROOM U/L
K061897013	ASB	BULK	PLM	5-125-0-E NO.2 ENGINE ROOM L/L
K061897014	ASB	BULK	PLM	2-7-0-E ANCHOR WINDLASS
K061897015	ASB	BULK	PLM	1-100-2 GALLEY
K061897016	ASB	BULK	PLM	1-125-2-L PASSAGE

COLLECTED BY:
J. Kenney/B.Seitz/F.Glynn

Received by/Chain of Custody Initited by:
Date/Time:

Relinquished by: Rose LiVecchi — Date 06/23/97 — Time 0800 — Received by:

Submitted to Lab by: Express Mail — Date 06/23/97 — Time 1000 — Received at Lab by: [illegible] 6/24/97 11AM via Ma

Pre-Logged by: BPS — Prepared By: KW — Analyzed by: KW

Data Validated by: KW — Rush Report by: — Date/Time — Post-Logged by: BPS

Data Processed by: BPS — Report Reviewed by: — Report Aproved by:

970699

(16)

ASBESTOS SURVEY FORM

SHIP: EX. SHERMAN

DATE: 6-21-97

PUMP # BULK

SAMPLE # K061897001

AREA: 2-141-0-L Crews Berth

START TIME: _____

STOP TIME: _____

FLOW RATE: _____

TOTAL VOLUME: _____

PUMP # BULK

SAMPLE # K061897002

AREA: 5-63-0-E NO.1 FIRE ROOM UL

START TIME: _____

STOP TIME: _____

FLOW RATE: _____

TOTAL VOLUME: _____

PUMP # BULK

SAMPLE # K061897003

AREA: 5-63-0-E NO. 1 FIRE ROOM UL

START TIME: _____

STOP TIME: _____

FLOW RATE: _____

TOTAL VOLUME: _____

PUMP # BULK

SAMPLE # K061897004

AREA: 5-63-0-E NO. 1 FIRE ROOM LL

START TIME: _____

STOP TIME: _____

FLOW RATE: _____

TOTAL VOLUME: _____

J. Kennedy

PERSON CONDUCTING SURVEY

ASBESTOS SURVEY FORM

SHIP: EX. SHERMAN DATE: 6-21-97

PUMP # BULK SAMPLE # K061897005

AREA: 5-83-0-E No. 1 Engine Room UL

START TIME: _____

STOP TIME: _____

FLOW RATE: _____

TOTAL VOLUME: _____

PUMP # BULK SAMPLE # K061897006

AREA: 5-83-0-E NO. 1 Engine Room UL

START TIME: _____

STOP TIME: _____

FLOW RATE: _____

TOTAL VOLUME: _____

PUMP # BULK SAMPLE # K061897007

AREA: 5-83-0-E No. 1 Engine Room LL

START TIME: _____

STOP TIME: _____

FLOW RATE: _____

TOTAL VOLUME: _____

PUMP # BULK SAMPLE # K061897008

AREA: 5-106-0-E NO. 2 FIRE Room UL

START TIME: _____

STOP TIME: _____

FLOW RATE: _____

TOTAL VOLUME: _____

J. Kennedy
PERSON CONDUCTING SURVEY

ASBESTOS SURVEY FORM

SHIP: EX. SHERMAN DATE: 6-21-97

PUMP # BULK SAMPLE # K061897009

AREA: 5-106-0-E NO.2 FIRE ROOM UL

START TIME: _____

STOP TIME: _____

FLOW RATE: _____

TOTAL VOLUME: _____

PUMP # BULK SAMPLE # K061897010

AREA: 5-106-0-E NO.2 FIRE ROOM LL

START TIME: _____

STOP TIME: _____

FLOW RATE: _____

TOTAL VOLUME: _____

PUMP # BULK SAMPLE # K061897011

AREA: 5-125-0-E NO. 2 ENGINE ROOM UL

START TIME: _____

STOP TIME: _____

FLOW RATE: _____

TOTAL VOLUME: _____

PUMP # BULK SAMPLE # K061897012

AREA: 5-125-0-E NO. 2 ENGINE ROOM UL

START TIME: _____

STOP TIME: _____

FLOW RATE: _____

TOTAL VOLUME: _____

J. Kennedy
PERSON CONDUCTING SURVEY

ASBESTOS SURVEY FORM

SHIP: EX. SHERMAN DATE: 6-21-97

PUMP # BULK SAMPLE # K061897013

AREA: 5-125-0-E NO. 2 ENGINE ROOM LL

START TIME: _____

STOP TIME: _____

FLOW RATE: _____

TOTAL VOLUME: _____

PUMP # BULK SAMPLE # K061997014

AREA: 2-7-0-E ANCHOR WINDLASS

START TIME: _____

STOP TIME: _____

FLOW RATE: _____

TOTAL VOLUME: _____

PUMP # BULK SAMPLE # K061997015

AREA: 1-100-2 GALLEY

START TIME: _____

STOP TIME: _____

FLOW RATE: _____

TOTAL VOLUME: _____

PUMP # BULK SAMPLE # K061997016

AREA: 1-125-2-L PASSAGE

START TIME: _____

STOP TIME: _____

FLOW RATE: _____

TOTAL VOLUME: _____

J. Kennedy
PERSON CONDUCTING SURVEY

(20)

REPORT OF ASBESTOS ANALYSIS

#970672

FORREST SHERMAN DDG-931

PREPARED FOR:

GLOBAL ASSOCIATES-NISMF
BUILDING 52, NAVAL BASE
PHILADELPHIA, PA 19112-5095

ATTN: MR. JOSEPH KENNEDY

PREPARED BY:

EAGLE INDUSTRIAL HYGIENE ASSOCIATES, INC.
359 DRESHER ROAD
HORSHAM, PA 19044

JUNE 27, 1997

REPORT #970672

BULK SAMPLE ANALYSIS METHODOLOGY

Analysis of asbestos bulk samples was performed on June 24, 1997 at the request of Mr. Joseph Kennedy, Global Associates for FORREST SHERMAN DDG-931. Bulk sample analysis was performed utilizing polarized light microscopy with dispersion staining, according to the "Interim Analytical Method of the Determination of Asbestos in Building Insulation Samples," (40 CFR Part 763, Subpart F, Appendix A, Revised 7-1-94). Note: Analyses of floor tile and tar samples are supplemented by special solvent preparation techniques.

Analytical results provided the following information:

1. Percent content of asbestos fibers by type: Chrysotile, Amosite, Crocidolite, Anthophyllite, Tremolite or Actinolite.

2. Percent content of non-asbestos fibers by general type: Cellulose, Fibrous Glass, Synthetic or other.

3. Percent content of nonfibrous matrix material by general classification: e.g. Nonfibrous Particulate, Binder, Cementitious Composition, Vinyl, Asphalt, etc.

Sample descriptions, custody record and analytical results follow. Eagle Industrial Hygiene Associates, Inc. is accredited by the U. S. Department of Commerce, National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, Laboratory ID# 101536.

EAGLE INDUSTRIAL HYGIENE ASSOC., INC.

Accredited for PLM by NVLAP Lab Code #101536-0

DATA SUMMARY

REPORT # 970672 **Date of Analysis:** 6/24/97
Client: Global Associates - NISMF
Site: FORREST SHERMAN DDG-931
Lab Report # 970699
Method: Polarized light microscopy with dispersion staining, according to the "Interim Analytical Method of the Determination of Asbestos in Building Insulation Samples," (40 CFR Part 763, Subpart F, Appendix A, Revised 7-1-94)

Sample # E 97062433 **Client #** K 60897001
Description: 2-141-0-L CREWS BERTHING
Results: 30 % Amosite
70 % NFP

Sample # E 97062434 **Client #** K 60897002
Description: 5-63-0-E FO. 1 FIRE ROOM U/L
Results: 75 % NFP
5 % Fibrous Glass
20 % Synthetic

Sample # E 97062435 **Client #** K 60897003
Description: 5-63-0-E NO. 1 FIRE ROOM L/L
Results: 100 % Fibrous Glass

Sample # E 97062436 **Client #** K 60897004
Description: 5-63-0-E NO. 1 FIRE ROOM L/L
Results: 90 % NFP
10 % Synthetic

Sample # E 97062437 **Client #** K 60897005
Description: 5-83-0-E NO. 1 ENGINE ROOM U/L
Results: 90 % NFP
5 % Fibrous Glass
5 % Nylon

Sample # E 97062438 **Client #** K 60897006
Description: 5-83-0-E NO. 1 ENGINE ROOM L/L
Results: 65 % NFP
35 % Fibrous Glass

Analyst: Keith E. Crawford

The "scope" of this report pertains only to those items tested and listed as such by each individual report

(23)

EAGLE INDUSTRIAL HYGIENE ASSOC., INC.

Accredited for PLM by NVLAP Lab Code #101536-0

DATA SUMMARY

REPORT # 970672 **Date of Analysis:** 6/24/97
Client: Global Associates - NISMF
Site: FORREST SHERMAN DDG-931
Lab Report # 970699
Method: Polarized light microscopy with dispersion staining, according to the "Interim Analytical Method of the Determination of Asbestos in Building Insulation Samples," (40 CFR Part 763, Subpart F, Appendix A, Revised 7-1-94)

Sample # E 97062439 **Client #** K 60897007
Description: 5-83-0-E NO. 1 ENGINE ROOM L/L
Results: 85 % NFP
10 % Fibrous Glass
5 % Nylon

Sample # E 97062440 **Client #** K 60897008
Description: 5-106-0-E NO.2 FIRE ROOM U/L
Results: 85 % NFP
15 % Fibrous Glass

Sample # E 97062441 **Client #** K 60897009
Description: 5-106-0-E NO. 2 FIRE ROOM U/L
Results: 90 % NFP
5 % Fibrous Glass
5 % Nylon

Sample # E 97062442 **Client #** K 60897010
Description: 5-106-0-E NO. 2 FIRE ROOM L/L
Results: 90 % NFP
5 % Fibrous Glass
5 % Nylon

Sample # E 97062443 **Client #** K 60897011
Description: 5-125-0-E NO. 2 ENGINE ROOM U/L
Results: 85 % NFP
10 % Fibrous Glass
5 % Nylon

Analyst: Keith E. Crawford

The "scope" of this report pertains only to those items tested and listed as such by each individual report

(24)

EAGLE INDUSTRIAL HYGIENE ASSOC., INC.

Accredited for PLM by NVLAP Lab Code #101536-0

DATA SUMMARY

REPORT # 970672 **Date of Analysis:** 6/24/97
Client: Global Associates - NISMF
Site: FORREST SHERMAN DDG-931
Lab Report # 970699
Method: Polarized light microscopy with dispersion staining, according to the "Interim Analytical Method of the Determination of Asbestos in Building Insulation Samples," (40 CFR Part 763, Subpart F, Appendix A, Revised 7-1-94)

Sample # E 97062444 **Client #** K 60897012
Description: 5-125-0-E NO. 2 ENGINE ROOM U/L
Results: 90 % NFP
5 % Fibrous Glass
5 % Nylon

Sample # E 97062445 **Client #** K 60897013
Description: 5-125-0-E NO. 2 ENGINE ROOM L/L
Results: 90 % NFP
5 % Fibrous Glass
5 % Nylon

Sample # E 97062446 **Client #** K 60897014
Description: 2-7-0-E ANCHOR WINDLASS
Results: 60 % Chrysotile
40 % Fibrous Glass

Sample # E 97062447 **Client #** K 60897015
Description: 1-100-2 GALLEY
Results: 85 % NFP
10 % Fibrous Glass
5 % Nylon

Sample # E 97062448 **Client #** K 60897016
Description: 1-125-2- PASSAGE
Results: 60 % Chrysotile
20 % Amosite
20 % NFP

Analyst: Keith E. Crawford

The "scope" of this report pertains only to those items tested and listed as such by each individual report

359 DRESHER ROAD
HORSHAM, PA 19044
(215) 672-6088
FAX (215) 443-0899

EAGLE
INDUSTRIAL HYGIENE ASSOC. INC

July 14, 1997

Mr. Joseph Kennedy
Global Associates-NISMF
Building 52, Naval Base
Philadelphia, PA 19112-5095

Dear Mr. Kennedy,

Please find enclosed the following Reports of Asbestos Analysis:

#970723 for Ex. Yarnell CG-17 TDL# 023-060
#970736 for Ex. Biddle CG-19 TDL# 023-060
#970737 for Forrest Sherman DDG-931 TDL# 023-060

If we can be of further assistance, please call the office during normal business hours.

Sincerely,

Marie Sharp

Marie Sharp
Office Manager

Enclosures

EAGLE INDUSTRIAL HYGIENE ASSOCIATES INC.
CHAIN OF CUSTODY RECORD

970756

(26)

Client:
Global Associates - NISMF
Building #52, Naval Base
Philadelphia, PA 19112-5095

Point of Contact
Joe Kennedy
Phone Number:
(215)897-6755

Project I.D. / TDL#
FORREST SHERMAN DDG-931 TDL 023-060 POST ASBESTOS)

PURCHASE ORDER NUMBER:
P.O.# 2696

Date & Time Results Required / Special Instructions / Comments:
JULY 16,1997
FAX (215)897-5625

Field Sample #	Anlyte	Sample Type	Analysis Requested	Decription
K070997017	ASB	AIR	PCM	2-141-0-L CREWS BERTH
K070997018	ASB	AIR	PCM	2-7-0-E ANCHOR WINDLASS
K070997019	ASB	AIR	PCM	1-100-2 CREWS GALLEY
K070997020	ASB	AIR	PCM	1-85-0-L CREWS MESS
K070997021	ASB	AIR	PCM	1-125-2-L PASSAGE
K070997022	ASB	AIR	PCM	2-177-1-Q HT SHOP
K070997023	ASB	AIR	PCM	01-89-0 FAN ROOM
K070997024	ASB	AIR	PCM	01-81-2-Q TUBE SHOP
K070997025	ASB	AIR	PCM	1-141-0-L PASSAGE
K070997026	ASB	AIR	PCM	5-83-0-E #1 ENGINE ROOM
K070997027	ASB	AIR	PCM	5-63-0-E #1 FIRE ROOM
K070997028	ASB	AIR	PCM	5-106-0-E #2 FIRE ROOM
K070997029	ASB	AIR	PCM	5-125-0-E #2 ENGINE ROOM
K070997029-1				BLANK

E970711-X

COLLECTED BY:
J. Kenney/B.Seitz/F.Glynn

Received by/Chain of Custody Initited by:
Date/Time:

Relinquished by: Rose LiVecchi — Date 07/10/97 Time 1300 — Received by:

Submitted to Lab by: Express Mail — Date 07/10/97 Time 1400 — Received At Lab by: 7-11-97

Pre-Logged by: BB — Prepared By: 7/11/97 — Analyzed by: Kw

Data Validated by: Kw — Rush Report by: — Date/Time — Post-Logged by: BB

Data Processed by: BB — Report Reviewed by: BB — Report Aproved by: Kw

ASBESTOS SURVEY FORM

SHIP: EX. SHERMAN DATE: 7-10-97

PUMP # HV-06 SAMPLE # K070997017

AREA: 2-141-0-L Crews Berth

START TIME: 0825

STOP TIME: 0955

FLOW RATE: 14.13 lpm

TOTAL VOLUME: 1271.7 l

PUMP # HV-04 SAMPLE # K070997018

AREA: 2-7-0-E Anchor Windlass

START TIME: 0845

STOP TIME: 1015

FLOW RATE: 13.83 lpm

TOTAL VOLUME: 1244.7 l

PUMP # HV-30 SAMPLE # K070987019

AREA: 1-100-2 Crews Galley

START TIME: 0825

STOP TIME: 0955

FLOW RATE: 14.43 lpm

TOTAL VOLUME: 1298.7 l

PUMP # HV-15 SAMPLE # K070997020

AREA: 1-85-0-L Crews Mess

START TIME: 0825

STOP TIME: 0955

FLOW RATE: 14.41 lpm

TOTAL VOLUME: 1296.9 l

J. Kennedy

PERSON CONDUCTING SURVEY

ASBESTOS SURVEY FORM

(28)

SHIP: EX. SHERMAN

DATE: 7-10-97

PUMP # HV-05

SAMPLE # K070997021

AREA: 1-125-2-L PASSAGE

START TIME: 0825

STOP TIME: 0955

FLOW RATE: 14.21 lpm

TOTAL VOLUME: 1278.9 l

PUMP # HV-08

SAMPLE # K070997022

AREA: 2-177-1-Q HT Shop

START TIME: 0825

STOP TIME: 0955

FLOW RATE: 13.90 lpm

TOTAL VOLUME: 1251 l

PUMP # HV-09

SAMPLE # K070997023

AREA: 01-89-0 FAN Room

START TIME: 0845

STOP TIME: 1015

FLOW RATE: 14.25 lpm

TOTAL VOLUME: 1282.5 l

PUMP # HV-07

SAMPLE # K070997024

AREA: 01-81-2-Q TUBE Shop

START TIME: 0855

STOP TIME: 1025

FLOW RATE: 14.30 lpm

TOTAL VOLUME: 1287

J. Kennedy

PERSON CONDUCTING SURVEY

ASBESTOS SURVEY FORM

(29)

SHIP: EX. SHERMAN DATE: 7-10-97

PUMP # HV-19 SAMPLE # K070997025

AREA: 1-141-0-L PASSAGE

START TIME: 0825

STOP TIME: 0955

FLOW RATE: 14.14 lpm

TOTAL VOLUME: 1272.6 l

PUMP # HV-15 SAMPLE # K070997026

AREA: 5-83-0-E No. 1 Engine Room

START TIME: 1015

STOP TIME: 1145

FLOW RATE: 14.41 lpm

TOTAL VOLUME: 1296.9 l

PUMP # HV-06 SAMPLE # K070997027

AREA: 5-63-0-E No. 1 Fire Room

START TIME: 1010

STOP TIME: 1140

FLOW RATE: 14.13 lpm

TOTAL VOLUME: 1271.7 l

PUMP # HV-08 SAMPLE # K070997028

AREA: 5-106-0-E No. 2 Fire Room

START TIME: 1010

STOP TIME: 1140

FLOW RATE: 13.90 lpm

TOTAL VOLUME: 1251 l

J. Kennedy

PERSON CONDUCTING SURVEY

ASBESTOS SURVEY FORM

SHIP: EX. SHERMAN

DATE: 7-10-97

PUMP # HV-05

SAMPLE # K070997029

AREA: 5-125-0-E NO. 2 ENGINE ROOM

START TIME: 1005

STOP TIME: 1135

FLOW RATE: 14.21 lpm

TOTAL VOLUME: 1278.9 l

PUMP # BLANK

SAMPLE # K070997029-1

AREA:

START TIME:

STOP TIME:

FLOW RATE:

TOTAL VOLUME:

PUMP #

SAMPLE #

AREA:

START TIME:

STOP TIME:

FLOW RATE:

TOTAL VOLUME:

PUMP #

SAMPLE #

AREA:

START TIME:

STOP TIME:

FLOW RATE:

TOTAL VOLUME:

J. Kennedy

PERSON CONDUCTING SURVEY

(31)

REPORT OF ASBESTOS ANALYSIS

#970737

FORREST SHERMAN DDG-17

PREPARED FOR:

GLOBAL ASSOCIATES-NISMF
BUILDING 52, NAVAL BASE
PHILADELPHIA, PA 19112-5095

ATTN: MR. JOSEPH KENNEDY

PREPARED BY:

EAGLE INDUSTRIAL HYGIENE ASSOCIATES, INC.
359 DRESHER ROAD
HORSHAM, PA 19044

JULY 14, 1997

REPORT #970737

AIR SAMPLE ANALYSIS METHODOLOGY

Analysis of asbestos air samples was performed on July 11, 1997at the request of Mr. Joseph Kennedy, Global Associates for Forrest Sherman DDG-931. Air samples were analyzed in accordance with the guidelines of NIOSH Method 7400, Issue 2 15 August 1994, utilizing phase contrast microscopy. Personal breathing zone samples were analyzed in accordance with the "OSHA Reference Method," 29 CFR 1926.58, App. A.

The laboratory at Eagle Industrial Hygiene Associates, Inc., is accredited by the American Industrial Hygiene Association (AIHA) and is a successful participant n the AIHA-sponsored Asbestos Analyst Registry and Proficiency Analytical Testing Program for airborne asbestos (Laboratory I.D. #08649).

The following information is provided for each sample:

1) Eagle Sample Number
2) Client Sample Number (if provided)
3) Sample Description (if provided)
4) Air Volume
5) Sampling Time (if provided)
6) Flow Rate (if provided)
7) Results (C): the airborne fiber concentration in terms of fibers greater than five micrometers (>5um) in length per cubic centimeter of air (f/cc). NOTE: Results for blank samples are provided in terms of fibers greater than five micrometers (>5um) in length per 100 counting fields.
8) Upper Confidence Limit (UCL): the value which represents the analytical variability associated with the sample result. There is 95 percent probability that the actual airborne fiber concentration falls at or below this level.
9) Fiber Density (E): the average number of fibers counter per unit surface area of the filter in terms of fibers greater than five micrometers (<5um) in length per square millimeter (f/mm2). NOTE: In cases where the result is below the limit of detection for a given sample (less than 7 fibers counted in 100 fields), the result is reported as the detection limit with a "less than" symbol (<) as a prefix. The UCL is "not applicable" (N/A) in this case.

Sample information and analytical results follow.

EAGLE INDUSTRIAL HYGIENE ASSOC., INC.

Accredited for PCM by AIHA #08649

DATA SUMMARY

REPORT # 970737 **Date of Analysi** 7/11/97

Client: Global Assoicates - NISMF / Forrest Sherman DDG-931

ab Report # 970756

Method: NIOSH Method 7400, Issue 2, August 15, 1994, utilizing phase contrast microscopy. Personal breathing zone samples are analyzed in accordance with the "OSHA Reference Method,"29 CFR 1926.58, App. A.

Sample # E 97042410 **Client #** K 70997029 -1
Description: Blank 0 **FIB/100 FIELDS**
Time: N/A **Flow Rate:** N/A LPM
Volume: N/A

Sample # E 97071173 **Client #** K 70997017
Description: 2-141-0-L CREWS BERTH
Time: 90 **Flow Rate:** 14.13 LPM **C:** 0.003 f/cc
Volume: 1271.7 **UCL:** 0.009 f/cc
E: 8.28 f/mm^2

Sample # E 97071174 **Client #** K 70997018
Description: 2-7-0-E ANCHOR WINDLASS
Time: 90 **Flow Rate:** 13.83 LPM **C:** 0.003 f/cc
Volume: 1244.7 **UCL:** 0.009 f/cc
E: 9.55 f/mm^2

Sample # E 97071175 **Client #** K 70997019
Description: 1-100-2 CREWS GALLEY
Time: 90 **Flow Rate:** 14.43 LPM **C:** 0.003 f/cc
Volume: 1298.7 **UCL:** 0.009 f/cc
E: 10.83 f/mm^2

Sample # E 97071176 **Client #** K 70997020
Description: 1-85-0-L CREWS MESS
Time: 90 **Flow Rate:** 14.41 LPM **C:** 0.005 f/cc
Volume: 1296.9 **UCL:** 0.016 f/cc
E: 15.92 f/mm^2

Sample # E 97071177 **Client #** K 70997021
Description: 1-125-2-L PASSAGE
Time: 90 **Flow Rate:** 14.21 LPM **C:** 0.004 f/cc
Volume: 1278.9 **UCL:** 0.012 f/cc
E: 14.65 f/mm^2

Analyst: Keith Crawford

The "scope" of this report pertains only to those items tested and listed as such by each individual report

EAGLE INDUSTRIAL HYGIENE ASSOC., INC.

Accredited for PCM by AIHA #08649

DATA SUMMARY

REPORT # 970737 **Date of Analysi** 7/11/97

Client: Global Assoicates - NISMF / Forrest Sherman DDG-931

ab Report # 970756

Method: NIOSH Method 7400, Issue 2, August 15, 1994, utilizing phase contrast microscopy. Personal breathing zone samples are analyzed in accordance with the "OSHA Reference Method,"29 CFR 1926.58, App. A.

Sample # E 97071178 **Client #** K 70997022
Description: 2-177-1-Q HT SHOP
Time: 90 **Flow Rate:** 13.90 LPM **C:** 0.003 f/cc
Volume: 1251 **UCL:** 0.009 f/cc
E: 9.55 f/mm ^{2}

Sample # E 97071179 **Client #** K 70997023
Description: 01-89-0 FAN ROOM
Time: 90 **Flow Rate:** 14.25 LPM **C:** 0.003 f/cc
Volume: 1282.5 **UCL:** 0.009 f/cc
E: 10.83 f/mm ^{2}

Sample # E 97071180 **Client #** K 70997024
Description: 01-81-2-Q TUBE SHOP
Time: 90 **Flow Rate:** 14.30 LPM **C:** 0.004 f/cc
Volume: 1287 **UCL:** 0.012 f/cc
E: 12.1 f/mm ^{2}

Sample # E 97071181 **Client #** K 70997025
Description: 1-141-0-L PASSAGE
Time: 90 **Flow Rate:** 14.14 LPM **C:** 0.004 f/cc
Volume: 1272.6 **UCL:** 0.012 f/cc
E: 14.01 f/mm ^{2}

Sample # E 97071182 **Client #** K 70997026
Description: 5-83-0-E #1 ENGINE ROOM
Time: 90 **Flow Rate:** 14.41 LPM **C:** 0.004 f/cc
Volume: 1296.9 **UCL:** 0.012 f/cc
E: 12.1 f/mm ^{2}

Sample # E 97071183 **Client #** K 70997027
Description: 5-63-0-E #1 FIRE ROOM
Time: 90 **Flow Rate:** 14.13 LPM **C:** 0.003 f/cc
Volume: 1271.7 **UCL:** 0.009 f/cc
E: 9.55 f/mm ^{2}

Analyst: Keith Crawford

The "scope" of this report pertains only to those items tested and listed as such by each individual report

EAGLE INDUSTRIAL HYGIENE ASSOC., INC.

Accredited for PCM by AIHA #08649

DATA SUMMARY

REPORT # 970737 **Date of Analysi** 7/11/97

Client: Global Assoicates - NISMF / Forrest Sherman DDG-931

ab Report # 970756

Method: NIOSH Method 7400, Issue 2, August 15, 1994, utilizing phase contrast microscopy. Personal breathing zone samples are analyzed in accordance with the "OSHA Reference Method,"29 CFR 1926.58, App. A.

Sample # E 97071184 **Client #** K 70997028

Description: 5-106-0-E #2 FIRE ROOM

Time: 90 **Flow Rate:** 13.90 LPM **C:** 0.003 f/cc

Volume: 1251 **UCL:** 0.009 f/cc

E: 10.83 f/mm ^{2}

Sample # E 97071185 **Client #** K 70997029

Description: 5-125-0-E #2 ENGINE ROOM

Time: 90 **Flow Rate:** 14.21 LPM **C:** 0.003 f/cc

Volume: 1278.9 **UCL:** 0.009 f/cc

E: 11.46 f/mm ^{2}

Analyst: Keith Crawford

The "scope" of this report pertains only to those items tested and listed as such by each individual report