SUT 00182398

Tickle 6/10/78

DEPARTMENT OF THE NAVY
MARE ISLAND NAVAL SHIPYARD
VALLEJO, CALIFORNIA 94592

5137.1

IN REPLY REFER TO:
185-Ser 322
5100
3 May 1978

MEMORANDUM

From: Commander, Mare Island Naval Shipyard
To: Commander, Naval Sea Systems Command

Subj: Controls for Asbestos Packing and Gaskets

Ref: (a) COMNAVSEASYSCOM Msg 061928Z Feb 78 N05100
(b) NAVSHIPS TECH-MANUAL CHAPTER 635 APPENDIX A

Encl: (1) Sampling Results of Asbestos Gasket Cutting, Punching or Shaping, Installation/Removal Operations

1. Reference (a), paragraph 3A, recommended controls to include a Type "C" continuous flow or pressure demand supplied air respirator, National Institute of Occupational Safety and Health (NIOSH) approved, for the cutting, punching, shaping operations for multiple (greater than five) gaskets. Additionally, paragraph 3B c. reference (a) recommends the use of a NIOSH approved single use dust respirator for the following operations:

a. Gasket cutting, punching or shaping (not to exceed five)

b. Gasket installation/removal

c. Flange cleanup after gasket removal

2. In accordance with reference (a), the above controls are presently being implemented.

3. Air sampling for asbestos in all of the processes similar to those described in reference (a) have been conducted by NRMC Industrial Hygienists at Mare Island Naval Shipyard. Enclosure (1) is the results of that sampling.

4. Experience should show that keeping the work area clean and free of scrap and debris and using controlled work methods to prevent dust generation will provide effective controls.

5. Enclosure (1) shows that no asbestos dust counts were recorded in excess of 2 fibers/CC as promulgated in reference (b). It is requested that recinding the controls implemented by reference (a) be vigorously pursued.

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All Naval Shipyards
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CRMC-M&S-003542

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SAMPLING RESULTS OF A[illegible] GASKET CUTTING, [illegible] OR SHAPING, INSTALLATION/REMOVAL OPERATION

(Greater than five)

Date	Material	Operation	Performing Shop/Bldg.	Measured Concentration (Fibers/Cubic Centimeter)	No. of Samples
5-23-77	1/8" white Garlock	Cutting 6-inch diameter gaskets and punching. Ten gaskets cut and 6 holes punched in each. Cut with a compass type gasket cutter with a razor blade cutting edge. Punched with a hand operated mechanical punch.	Shop 64 Bldg. 50	<0.01	1
5-27-77	1/8" white Garlock	Cutting 14 six-inch, six-hole gaskets.	Shop 64 Bldg. 50	0.13 - 0.24	2
2-28-78	1/8" white Garlock	Operation sampled consisted of following sequences: 1. Shearing 4" x 22" strips on Cincinnati Auto Shear. Ten cuts made. 2. Punching on a punch press cutting 3-7/8" diameter holes in strips. 35 holes cut. 3. Cutting gaskets on a cutting press. Nine gaskets cut (see exhibit (1) for example).	Shop 17 Bldg. 1310	<0.01	2

Enclosure (1)

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... than five)

Date	Material	Operation	Performing Shop/Bldg.	Measured Concentration (Fibers/Cubic Centimeter)	No. of Samples
3-10-78	1/16" white Garlock	Operation sample consisted of following sequence: 1. Cutting material into 1/4" wide strips with a pair of snips. Eighteen 9" strips cut. 2. Cleanup waste removed. 3. Hand punching 9/16" holes. Seventy-eight holes cut.	Shop 31 Bldg. 680	0.08 - 0.15	2
3-1-78	1/8" gaskets on ventilation duct heaters	Gaskets removed with a chisel. Surfaces then scraped with a knife, file, and wire brush. Six 3" x 5" gaskets removed.	Shop 64 Bldg. 326	0.02 - 0.53	2
3-3-78	1/8" gaskets on ventilation duct heaters	Nine 3" x 5" gaskets removed. Loose material cleaned up.	Shop 64 Bldg. 326	0.65 - 0.77	2
3-1-78	1/8" gaskets on ventilation duct heaters	Eighteen 3" x 5" gaskets removed.	Shop 64 Bldg. 326	0.05 - 0.24	2

Enclosure (1)

CRMC-M&S-003544

SAMPLING RESULTS OF ASBESTOS GASKET CUTTING, PUNCHING OR SHAPING, INSTALLATION/REMOVAL OPERATIONS

(Not to exceed five)

Date	Material	Operation	Performing Shop, Bldg.	Measured Concentration (Fibers/Cubic Centimeter)	No. of Samples
4-10-73	1/8" white Consolco	Hand cutting and punching	Shop 38 Bldg. 128	0.2 - 0.3	2
4-10-73	1/8" black Consolco	Hand cutting	Shop 38 Bldg. 128	0.2	1
4-7-77	1/8" white Garlock	Cutting with shear, punching on punch press, cutting with circle shear, hand punching	Shop 17 Bldg. 1310	<0.5	2
10-6-77	1/8" white Garlock	Cutting with Beverly hand shear (10 mins.) and Wiedemann hand punch (5 mins.).	Shop 17 Bldg. 62	0.2	1
10-6-77		Background and cleanup around shear.	Shop 17 Bldg. 62	1.2	1
5-25-77	1/8" white Garlock	Pre-stamping and hole punching. Pre-punching done with hammer and die. Incomplete cleanup of scrap.	Shop 64 Bldg. 50	1.67	1
5-27-77	1/8" white Garlock	Cutting 9/16 inch bolt holes by pre-punching with hammer and die and mechanical hand punch.	Shop 64 Bldg. 50	0.28	1
3-10-78	1/16" white Garlock	Operation sampled consisted of the following: Circles cut with a hand gasket cutter. Five operation of decreasing diameter cut.	Shop 31 Bldg. 680	0.08 - 0.15	2

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GASKET CUTTING, REMOVAL OR SHAPING,
INSTALLATION/REMOVAL OPERATIONS

(Do not exceed five)

Date	Material	Operation	Performing Shop/Bldg.	Measured Concentration (Fibers/Cubic Centimeter)	No. of samples
3-10-78	1/8" gasket from lube oil pump flange	Gasket removed by [illegible] with screwdriver. Gasket 14 inches outside diameter, 9" I.D.	Bldg. 680 Shop 31	<0.01 - 0.78	2
3-1-78	1/8" gaskets on ventilation duct heaters	Gaskets removed with a chisel. Surfaces then scraped with a knife, file, and wire brush. Four 12" x 12" gaskets removed.	Shop 64 Bldg. 326	0.02 - 0.53	2
3-1-78	1/8" gaskets on ventilation duct heaters	Two 12" x 12" gaskets removed	Shop 64 Bldg. 326	0.05 - 0.24	2

Enclosure (1)

CRMC-M&S-003546

SAMPLING RESULTS OF ASBESTOS GASKET CUTTING, [illegible] OR SHAPING, INSTALLATION/REMOVAL OPERATIONS

(Shop Stores Operations)

Date	Material	Operation	Performing Shop/Bldg.	Measured Concentration (Fibers/Cubic Centimeter)	No. of Samples
7-18-77	Consolco & Flexatellic gaskets.	Shop Stores storage. Employee looking through cabinets and opening bags containing gaskets.	Supply Bldg. 55	<0.01	0
7-18-77		Background in Shop Stores	Supply	<0.01	3

Enclosure (1)

CRMC-M&S-003547