

Delaval



Condenser and Filter Division
Front Street
Florence, N. J. 08518
(609) 499-3000

PLAINTIFF'S
EXHIBIT
IMO-124

April 25, 1986

General Dynamics
Electric Boat Division
Eastern Point Road
Groton, CT 06340

Attention: Mr. Gordon Rasmussen
Department 457

Subject: IPMP Main Condenser
EB Div. P.O. M 2154-501
Delaval S.O. 511797
Asbestos Gasket Use

Enclosure: A. TDI Ltr to EB Div. Dtd 06/28/86
Re Substitution for Asbestos Gaskets
w/attachments
B. Engineering Memo E-55, Internal Instructions
For Asbestos Gasket Material Substitution

Gentlemen:

We would like to request your review and consideration of the use of a non asbestos substitute gasket material to be used on the subject condenser as variance from MIL-C-15430J requirement. The material used for the existing submarine application units has been "Packing, Sheet Asbestos Compressed" per MIL-A-17472 and currently HH-P-46.

on the IPMP condenser the only place this material is used is for the shell manway access opening gaskets. We would propose to use Garlock Blue Gard, or preferably the material that you use as a substitute at the shipyard.

To date we have been unsuccessful in our attempts to obtain a specification change, reference Enclosure A, which includes correspondence both to Navy and shipyards, yourself included.

With increased evidence of the health hazard and legal actions being taken by users and employees handling asbestos of any type, we request your assistance in minimizing, where possible, the use of asbestos.

Direct action has been taken by us in the form of request for specification change. Additionally, we have issued Enclosure B in house to avoid use of asbestos gaskets wherever possible.

TX0383

**Transamerica
Delaval**



Transamerica Delaval Inc.
Condenser and Filter Division
Front Street
Florence, N. J. 08518
(609) 499-3000

June 28, 1985

General Dynamics Corporation
Electric Boat Division
Eastern Point Road
Groton, CT 06340

Attention: Mr. W. F. Barrows

Subject: Submarine Application Air Ejectors
Asbestos Gasket Material
EB Div. P.O. L 3060-701
Our S.O. 511834

*Phone
Response
5/5/85*

Enclosure: A. DD Form 1426 dated April 17, 1985
B. BLUE-GARD Bulletin, TP-1/81-100M
C. John Crane Letter dtd May 23, 1985

Gentlemen:

We are finding it increasingly difficult to purchase compressed asbestos gasket material meeting the requirements of HH-P-46 (superseding document to MIL-A-17422) and other products which utilize asbestos as a filler material. These materials are defined in MIL-C-15430 and MIL-E-15465 equipment specifications.

A request has been made of NAVSEA (Enclosure A); however recognizing the large amount of gasket material used in your shipbuilding operation, we request your assistance in identifying substitute material with appropriate controlling specifications that we might use as an alternate or substitute gasket material in 1/16" and 1/8" thicknesses.

We would hope to get one that is universally accepted by Navy and shipyards so that the administrative costs involved in submitting a deviation or waiver request on each contract and/or application might be reduced for ourselves and our customers.

Where not governed by specific specification, we have used Garlock's "Blue Gard" (bulletin attached, Enclosure B). We have also considered the use of John Crane's Style 2160 material as defined in their letter dated May 23, 1985.

TX0384

ENGINEERING MEMO E-55
October 1, 1985

GASKET MATERIALS AND DRAWINGS

Compressed asbestos gasket material is difficult to obtain commercially (and is becoming more so) since just about all sources (at least in the U.S.A.) have curtailed or discontinued its manufacture. Several excellent substitutes for the sheet asbestos gasket material have been developed and are available commercially. Some of the acceptable substitutes meeting ASTM F-104 are:

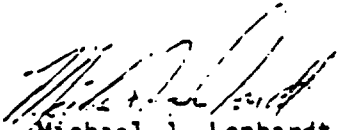
1. Garlock - Blue-Gard
2. Anchor Packing - Style 443A
3. Richard Klinger Inc. - Klingersil C-4400

These materials are rated for 750 degrees F and pressures to 1450 psi. They are to be used for all applications falling within this operating range for which asbestos fiber sheet has been previously used; principally for the tube sheet-shell gasket. They are, effective immediately, our standard gasket material for this service.

Customer's specifications requiring asbestos gaskets are to be questioned (by project engineer), making specific efforts to substitute these materials (where possible).

Drawings for gaskets made in "more than one piece" are to show location and type of splices; they (the gasket drawings) will contain cutting sketches showing the "nesting" of the various gasket pieces on the sheet gasket material. The available sizes of gasket material is to be determined at the time the gasket drawings are prepared; the sizes and quantities needed for the job are to be order via bill of material (as opposed to use of stocked material as is the present practice).

Project Engineers are responsible for the implementation of these instructions.


Michael J. Lenhardt
Engineering Supervisor

MJL:bf

c.c.: Drafting Department
Engineering Department
J. E. Bricker
R. g. Silver

TX0385