

John Crane
International Sealing Systems

John Crane-Sealing Inc.
6400 Oakton Street
Morton Grove, IL U.S.A. 60053
Telephone: (312) 967-2400
TWX: 910-223-3623
Telex: 724-420

RECEIVED

JUN 20 1988

CONDENSER-ENG

June 16, 1988

Leo Delaval Inc.
Delaval Condenser Division
Front Street
Florence, New Jersey 08518

ATTN: T. P. Dooley - Senior Buyer

SUBJECT: Non-Asbestos Gasketing Material

Dear Mr. Dooley:

I have as yet not seen any information from NAVSEA as to specific approval of our or any other non-asbestos gasketing material.

While we have been working with Mil specs MIL-G-XXL77 and MIL-G-XX272, and have submitted samples and apparently passed all of the preliminary tests, as far as I can presently determine, the tests have been stopped or are in limbo, but I'm not quite sure.

I've asked our man on the East coast who is in touch with NAVSEA disc and others involved in this as to the present status, as I've got a large file on these particular items, but no answers.

Last week though, I was in touch with JRM Laboratories who are doing Navy testing, and perhaps progress will soon be made.

If I find out anything further from our East coast contact, I will get back to you.

Sincerely,
JOHN CRANE INC

George E. McKillop
Product Manager
Packing Division

TX0369

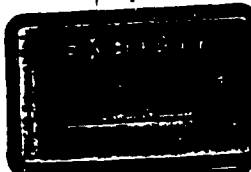
GRK/Lmp

cc: Frank Crosetti - Fairfield
Dick Boardman - Washington, DC

RECEIVED

JUN 20 1988

PLAINTIFF'S DEPARTMENT



RECEIVED **IMO**

Imo Delaval Inc.
Delaval Condenser Division
Front Street
Florence, NJ 08518
609-499-3000

JUN 10 1988

June 10, 1988

John Crane Company
6400 Oakton Street
Morton Grove, IL 60053

CONDENSER ENG'G

Attention: Mr. G. R. McKillop

Subject: Non Asbestos Gasketing Material

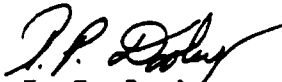
Gentlemen:

In May, 1985 we corresponded concerning the subject material. Your last letter to me stated you were working with NAVSEA to get approval of your 2160 material.

Has this item or any of your non asbestos materials been accepted for the QPL as approved for MIL-G-24696?

Please send me information/literature for any items that have been proposed/accepted for inclusion on the QPL.

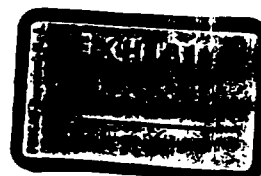
Very truly yours,


T. P. Dooley
Senior Buyer

TPD/md

cc: H. W. Braun

TX0370



Manville Specialty Products Group

H. Braun
To: J. Hensley
5/16/88
JD
Manville

RECEIVED

MAY 16 1988

CONDENSER ENG'G.

May 10, 1988

IMO Delaval, Inc.
Delaval Condenser Division
Front Street
Florence, NJ 08518

Attention: T. P. Dooley, Senior Buyer

RE: MIL-G-XX177 (SH) MILITARY SPECIFICATION
GASKET, SHEET, NON-ASBESTOS

Gentlemen:

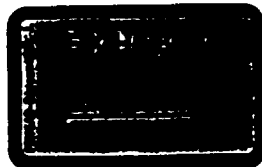
Manville's current styles of compressed non-asbestos sheet packings do not comply with all the provisions of the subject specification. Manville is developing a next generation sheet packing that will comply. We anticipate that our new line of compressed non-asbestos sheets will be available by year-end.

Very truly yours,

C. B. Bryan
C. B. Bryan
Market Manager
Sealing Components Department

ain

TX0371



Colt Industries



April 25, 1988

TO: *A. Brown*
J. Jansky
4/27/88
T PD

Garlock Inc
Mechanical Packing Division
1666 Division Street
Palmyra, New York 14522-9355
315/597-4811
Telex No.: 249584
Panafax No.: 315/597-5556 or
315/597-3216

IMO Delaval Inc.
Delaval Condenser Div.
Front St.
Florence, NJ 08518

Attn: Mr. T. P. Dooley
Senior Buyer

RECEIVED

APR 27 1988

CONDENSER ENG'G.

Dear Mr. Dooley:

This letter refers to your letter of 4-5-88 and our telephone conversation of 4-13-88 concerning a non-asbestos gasketing specification for HH-P-46E.

We have been advised that the new specification is in the process of being printed and the number assigned is MIL G-24696 (formerly MIL-G-XX177(SH)).

We have already submitted a number of our products for inclusion in the QPL listing. Hopefully, this information will be available in several months time and we shall keep you posted on developments.

Should you require any additional information, please contact me.

Very truly yours,

Agnes Potepan
A. Potepan
Manager, Sheet &
Gasket Engineering

AP:jmh

TX0372



RECEIVED

APR 27 1988

PROCURING DEPARTMENT

Colt Industries



Barb: Check J. Gansky and Tom Dooley for copy of this. Please make separate file on MIL-G-24696 non asbest. gask.

April 25, 1988

IMO Delaval Inc.
Delaval Condenser Div.
Front St.
Florence, NJ 08518

Attn: Mr. T. P. Dooley
Senior Buyer

Dear Mr. Dooley:

This letter refers to your letter of 4-5-88 and our telephone conversation of 4-13-88 concerning a non-asbestos gasketing specification for HH-P-46E.

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Should you require any additional information, please contact me.

Very truly yours,

Agnes Potepan
A. Potepan
Manager, Sheet &
Gasket Engineering

AP:jmh

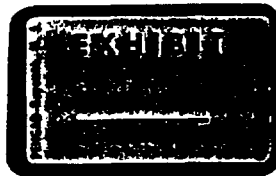
*TO: A. Brown
J. Gansky
4/27/88
JPD*

Garlock Inc
Mechanical Packing Division
1668 Division Street
Palmyra, New York 14522-9255
315/597-4811
Telex No.: 248584
Panafax No.: 315/597-5656 or
315/597-3218

RECEIVED

APR 27 1988

CONDENSER ENG'G.



RECEIVED

APR 27 1988

PURCHASING DEPARTMENT

Transamerica
Delaval



MEMO

CONDENSER / FILTER DIVISION
INTER-OFFICE CORRESPONDENCE

RECEIVED

MAY 11 1986

To: R. G. Silver

Date: May 6, 1986

From: T. P. Dooley

Subject: Asbestos Packing Material

CONDENSER ENG'G

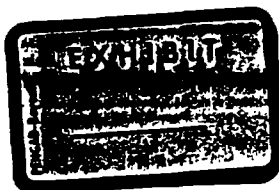
Anchor Packing has advise me that, effective May 31, 1986, they are going out of the asbestos sheet goods business.

We should check our contract commitments for this material, also any anticipated requests and place an order for whatever we need.

Anchor Packing was the last of the vendors we had contacted who was making asbestos sheet goods. It was their intention to be the last supplier of this material.

cc: H. Braun
J. Gansky
M. Lenhardt
B. Sanchez
C. Hoyt

TX0375





To: MEMO TO FILE ASBESTOS GASKET MATERIAL

Date: May 5, 1986

From: Henry W. Braun

Subject: Telecon of 05/05/86 - H. Braun and
W. Barrows, EB Div. Purchasing.
Re Sources of Asbestos Gasket Material

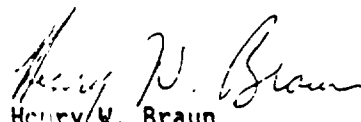
Reference: HWB Ltr to W. Barrows, EB Div.,
Order 511834, dated June 28, 1985

Bill Barrows called and defined the following sources for asbestos
gasket material:

Gatos Engineering
Paul Gatos
Telephone (516) 883-8333

Industrial Gasket
Dan Smith
(206) 763-0717

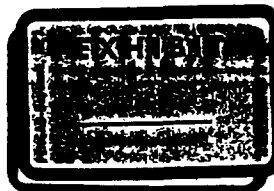
I commented that we were trying, as we had indicated to Electric Boat
Division and the Navy, to find alternate material for safety and health
reasons.


Henry W. Braun

Hwb:bf

c.c.: J. Gansky
P. J. Hamm
R. G. Silver
Design Data "Asbestos Gasket Material"
HWB "Navy Action File"

TX0376





To: MEMO TO FILE 511797 & NON ASBESTOS
GASKET MATERIAL

Date: May 5, 1986

From: H. W. Braun

Subject: Substitute Material for Asbestos Gaskets
Telecon of 5/5/86 - G. Rasmussen, EB Div.,
and H. W. Braun

Gordon called with reference to my 511797 letter dated April 25, 1986 regarding subject substitution. He discussed substitution with Kurt Bredehorst and substitution of Blue Gard #3200 gaskets will be permitted on IPMP.

We will receive a formal approval letter. This is a case basis, however we will be able to use it as a precedent for other requests.

Formal specification is still being developed by Navy.

Henry W. Braun

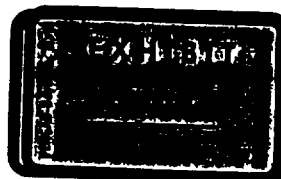
HWB:bf

c.c.: J. Gansky/J. P. Vallar/File 511797
Navy Change File (HWB)
Design Data "Asbestos Gasket Substitutes"

J. Gansky/J. P. Vallar:

Please change drawings on IPMP. In Revision Block we will leave space for letter authority.

TX0377





Transamerica Delaval
Electric Boat Division
Eastern Point Road
Groton, CT 06340
(603) 493-4000

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

*Approved Blue Guard
Hazardous Waste
of Delaval
10/1/86*

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:

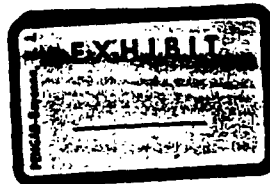
We would like to request your review and consideration of the use of a non asbestos substitute gasket material to be used on the subject condenser as variance from MIL-C-15430J requirement. The material used for the existing submarine application units has been "Packing, Sheet Asbestos Compressed" per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



TX0378

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:

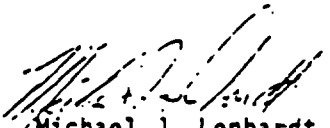
1. Garlock - Blue-Gard
2. Anchor Packing - Style 443A
3. Richard Klinger Inc. - Klingersil C-4400

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

TX0380

MJL:bf

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



511830 511795
ORDER NO. 511812 511875 CUST./VENDOR

CALL DATE: 8/5/85 TIME: INCOMING: ☒ OUTGOING

BETWEEN J GANSKY OF DELAVAL & K BREDEMORST
OF NAUSEA

SUBJECT: GASKET MATLS

RECEIVED

SUMMARY:

AUG 7 1985

Transamerica Delaval Inc.
Condenser Division
Front Street
Florence

CONDENSER ENG'G

① Kurt indicated that cloth inserted rubber gaskets could replace asbestos gaskets, where asbestos is not available and temperatures are low enough. There is no mil-spec available for an asbestos substitute. He did recognize that materials such as "Blue Guard" are probably the best substitutes available.

② He also said that the Navy was having problems w/ cloth inserted rubber gaskets. It appears that the gaskets were not made properly and caused leaks. (He didn't indicate source of leaky gaskets or application). He said that the Navy is considering substituting solid rubber gaskets, 1/16" th, per MIL-R-855 class 1 or 2, grade 80 (HARDNESS).

③ POSSIBLE CHANGE IN IMPINGEMENT TUBE MAT'L. FOR IPMP (FROM T1 TO S.S.). TDI SHOULD CHECK DIFFERENCE IN VIBRATION RESPONSE.

④ REQUESTED RECOMMENDATION FOR MAT'L UPGRADE FROM A53 OR A406 TO MORE CORR. RESIST. MAT'L.

DISTRIBUTION OF REPORT:

(GAVE HIM A-333 BUT INDICATED MIN. GRD. PERHAPS 15 TONS W/ SIGNIF. PRICE INCREASE)

HWB
R SILVER
J VALLAR
C PRICE

Transamerica
Delaval

TRANSAMERICA DELAVAL INC.
CONDENSER & FILTER DIV.
FLORENCE, N. J. 08510

TITLE
TELEPHONE CONFERENCE REPORT

ORWN	DATE	SYMBOL	REV
APPR	DATE	CW-2500B041	

CHG	ALTERATIONS	DATE	BY	APPR
-----	-------------	------	----	------

TX0381

**MEMO**CONDENSER / FILTER DIVISION
INTER-OFFICE CORRESPONDENCE**RECEIVED**

JUL 11 1985

CONDENSER ENG'G

To: J. R. Cardin

Date: July 11, 1985

From: R. G. Silver

Subject: Packing, Asbestos, Sheet, Compressed

Attached is a copy of QPL-HH-P-46-7 of November 2, 1981, the current issue, that covers manufacturers of asbestos sheet we use at this division.

In accordance with our conversation of July 10, 1985, you have agreed the below listed manufacturers can be added to the Military Approved Vendor List under the proviso that their products will be inspected thoroughly upon receipt and prior to placing in controlled inventory. Normal requests for them to complete and return the self evaluation form have been mailed. On site QC evaluation of them will be made as quickly as possible.

The Anchor Packing Company

Anchorite 484A
Anchor Style 425
Anchor Style 424
Anchorite Style 424
Anchorite Style 425

Asbestos Textile Company

Aztec N-100
Aztec 3606
Aztec 3604
Aztec 3605

Crane Packing Company

John Crane Style #2150

Please note that, although both Raybestos and Crane are on the QPL, they have signified their intent to withdraw from the business of supplying asbestos containing gaskets or products.

TX0382

Enc.

cc: C. J. Link
H. W. Braun w/QPL
A. E. Savukinas
T. P. Dooley
P. J. Hamm



Front Street
Florence, N. J. 08518
(609) 499-3000

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

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.

*Phone
Response
5/5/85*

TX0384

ENGINEERING MEMO E-55
October 1, 1985

GASKET MATERIALS AND DRAWINGS

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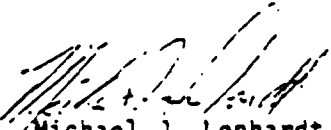
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Michael J. Lenhardt
Engineering Supervisor

MJL:bf

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

TX0385