BELL HELICOPTER TEXTRON
Engineering Laboratories

Report No. 0080M-182
September 17, 1980

To: Mr. G. Felker

Copies to: Messrs. N. Blatnick, A. Carmena, E. Covington, K. Porter, G. Rodriguez, R. Scott, O. Smith; Lab Files

Subject: QUALIFICATION TEST OF METALSET A-4NA (EVALUATION OF ADHESIVE WITHOUT ASBESTOS FILLER)

INTRODUCTION

Reported herein are the results of the test on Metalset A-4NA two-part general purpose adhesive. This work was performed on EWA 8580-H54.07.

TEST RESULTS

Lap shear test specimens were tested at -67°F R.T. 140°F and 180°F. These results are given in Table I.

CONCLUSIONS

The Metalset A-4NA meets the requirements of 299-947-099 and should be listed on Q.P.L. by September 30, 1980. The Metalset A-4 will be flagged inactive for future procurement.

TEST SPECIMENS AND METHODS

The lap shear tests were performed on Metalset A-4NA per MMM-A-132 Federal Specification.

PLAINTIFF'S EXHIBIT
BELL-24

R. D. Cathey
Engineer
Methods and Materials Lab

APPROVED:

J. Cernosek
Group Engineer
Methods and Materials Lab

TABLE I

LAP SHEAR STRENGTH OF METALSET A-4NA

	Average Strength	Required
Shear at -67°F	2595	2500
Shear at R.T.	2584	2500
Shear at 140°F	1503	1000
Shear at 180°F	661	none

Bell Helicopter TEXTRON
A Subsidiary of Textron Inc

INTER-OFFICE MEMO

80:KA:jk-1192
December 7, 1983

Memo to: Mr. P. Montes

Copies to: Messrs. N. Blatnick, H. Frazier, K. Porter, G. Rodriguez

Subject: **QPL CHANGES, SPECIFICATION 299-947-079 AND 299-947-125**

Please make the following changes to the Qualified Products List (QPL) of the subject specifications:

1. Specification 299-947-079

   The following material is inactive for future procurement:

   contains asbestos

   Vendor P/N AF3020, a product of the 3M Company

2. Specification 299-947-125, Type I

   Change vendor part number on the following material:

   Vendor P/N EA9309, a product of Hysol; change to vendor P/N EA9309NA, a product of Hysol.

   ? non asbestos

K. Anderson
Test Engineer
Methods & Materials Lab

Approved: _____
J. Cernosek
Group Engineer
Methods & Materials Laboratory

Bell Helicopter TEXTRON
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INTER-OFFICE MEMO

September 28, 1987
12:AJS-ISH1293

MEMO TO: R. Lynn

COPY TO: C. Allen, W. George, C. McKeen, B. Steele, E. Szol, R. Young

SUBJECT: REPLACEMENT OF ASBESTOS CONTAINING MATERIALS

As an ongoing effort to eliminate all possible incoming sources of asbestos containing materials due to the known latent health effects, we are soliciting your help by bringing this matter to the attention of each of the respective Engineering Departments who are responsible for authorizing these materials in the various manufacturing specifications.

Usage of asbestos containing material at BHTI includes such items as gasket fittings, firewall insulation, upholstery materials, chafe straps - to name a few. Aside from the obvious potential health problems associated with asbestos, many of these items are no longer available through asbestos manufacturers and vendors, or are soon to be phased out, thereby necessitating the need for alternative materials to be found.

The Industrial Safety and Hygiene Department encourages all Engineering Departments to work closely with Procurement in finding suitable replacement materials and to start the process of eliminating those asbestos containing materials currently in use.

Your cooperation in this matter is appreciated. If I may be of assistance in any way, please advise.

Alan J. Schijf
Sr. Industrial Hygienist