

Babcock & Wilcox
Power Generation Group

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MAY 28 1981

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From
G. B. SCHUMACHER - REGENERATIVE AIR HEATERS

Cust.

File No.
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Subj.

NON-ASBESTOS GASKETING FOR AIR HEATERS

Date

MAY 26, 1981

BOS 663-7

This letter to cover one customer and one subject only.

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A series of tests were run on Garloc's Blue-Gard compressed non-asbestos gasketing with the following information obtained:

1. Approximate density = 91.3 #/ft^3 (approximately 8.7% below published data).
2. Leakage Results:
 - 2.1 Gasketing .063" thick and compressed to approximately 1300 psi. At room temperature, 110 psi air was applied to the interface with moderate leakage noted.
 - 2.2 Compression was increased to 2000 psi and 110 psi air reapplied to the interface with no leakage noted.
 - 2.3 Sample was subject to 450°F for three hours and retested for leakage with no leaks developing.
3. The filler in this material was found to be NBR. After subjecting sample to 450°F no filler burnout could be detected.
4. No test for reaction with SHC 634 oil was made because oil sample was not available. Conversation with Mobil Oil suggests no adverse reaction may be expected if material used in air heater lube system.
5. Maximum temperature X pressure published by Garloc = 700,000. Actual test was 28.6% over this figure with no adverse results noted.

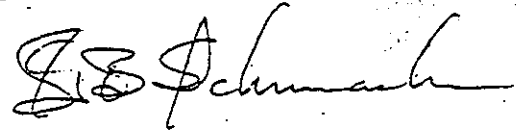
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Non-Asbestos Gasketing for Air Heaters

6. Material hard and brittle after testing and must be removed by chiseling.

Recommendation: Based on test data and Mobil oil information, I recommend that this material be used as flange gasketing anywhere in the air heater lube system where asbestos is still being used, providing 2000 psi minimum compression is maintained on flanged connections.

When this change is implemented, there should be no asbestos material being used on the Rothemuhle air heaters with the exception of the sootblower lines.



G. B. Schumacher

GBS:rl

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