PLAINTIFF'S EXHIBIT
tabbies
AL-1557

R.P. CARTER 7/28AB

PITTSBURGH PURCHASING
INDUSTRIAL & PACKAGING
MATERIALS - 19

MR. R. W. KNAPP

MASSENA OPERATIONS

20JUL76

RE: ALTERNATIVES FOR ASBESTOS AND ASBESTOS - CONTAINING MATERIALS

This is in reference to your letter of 12JUL76 to R.P. Carter on possible candidates for replacing asbestos containing materials.

1. Marinite

With the exception of R-580 there is no substitute for Molten Metal Marinite in ingot casting operations. The ceramic headers mentioned in Mr. Reichelt's letter are made with R-580.

2. Asbestos Cloth and Paper

Cressona and Vancouver are evaluating the use of woven Fiberglass spacers for metal separation. For detailed information on this matter we suggest you contact Mr. F. J. Burns at Cressona and Mr. B. W. Motre at Vancouver.

Ceramic fiber paper such as Carborundum's Fiberfrax paper can replace asbestos paper in some applications; however, the ceramic fiber product does not have the strength characteristics of asbestos.

3. Asbestos Board

Asbestos board used to cover transfer troughs and filter boxes can be replaced with vacuum formed ceramic fiber boards such as C-E Refractories Thermotect A Board or Babcock & Wilcox M-Board. For trough applications only, an asbestos free Marinite, designated Marinite XL is adequate for trough covers.

One technique used in some plants as a replacement for asbestos covers on filter boxes is to lay a blanket of Johns-Manville Cerablanket (a ceramic fiber blanket) on top of the metal in the inlet area during downtime.

COPY

ALCOA

4. Asbestos Gloves

There is a commercially available treated asbestos product used in making asbestos gloves and other materials. Information on these products can be obtained from: Southern Asbestos Co., P. O. Box 10516, Charlotte, North Carolina 28237 Attn: Mr. A. Smith (704) 372-2880.

For your information I have enclosed a brochure on Refrasil, a very interesting silica fiber product. This brochure may offer some suggestions as a possible, but costly, substitute for asbestos products.

M. J. CAPRIO

MJC:gih

Attachment

cc: R.P. Carter - AB 7
W.B. Herrod - Massena Operations

YOUNG

FROM R. W. KNAPP

MASSENA OPERATIONS

TO MR. ROBERT P. CARTER

PITTSBURGH OFFICE

July 12, 1976

RE: ALTERNATIVES FOR ASBESTOS AND ASBESTOS-CONTAINING MATERIALS

I have received the attached letter from G. K. Reichelt, Ingot Plant Metallurgist. Please note the use of asbestos paper and asbestos board. Do you have some good substitutes that you recommend we try?

Asbestos cloth and paper is also being used in our finishing mills for separation of aluminum from steel racks during thermal practices. We also need a good substitute for these uses.

Would appreciate any suggestions.

R. W. KNAPP
Copy this letter & att. to M.J.Caprio 15Jul76
RWK:bl

Attachment

Copy —

Do you have enough information here to be able to recommend alternates?

RPK
7/15/76

411084 1551

ALCOA

SF-4563 (REV 11-68)

FROM: G. K. REICHELT (211)
INGOT PLANT
METALLURGICAL DEPT.

TO: MR. R. W. KNAPP (5)

July 2, 1976

RE: ALTERNATIVES FOR ASBESTOS-CONTAINING MATERIALS
Ref: Your Letter of May 25, 1976

In regards to the use of asbestos containing material used in the Ingot Plant, at present we are still using the following:

Marinite

Headers and dams made from this material are still being used. Programs are underway to replace the marinite headers with ceramic headers. The 8" diameter ceramic header molds are being fabricated at ATC. The 15" diameter ceramic header design is on "hold" until we have finalized a header design (both in marinite and ceramic) which will give us the quality casting speed relationship desired.

We have not found an adequate substitute for marinite dams. Substitutes tried either break when "damming" off a position or are attacked by molten aluminum

We are not machining any marinite in-plant. All of the machining is performed at Baildon.

Other areas or products which use asbestos material are:

Would we recommend the HK Porter Kool-Grip gloves? RPK

Asbestos Gloves	- Used in changing filters and handling hot ingot.
Asbestos Paper	- Used in a number of areas, primarily packing bottom blocks.
Asbestos Board	- Used to cover troughs or filters to retain heat in these areas.

The above three products are still being used and no substitute or program is in progress to find a substitute for them.

GKR

G. K. REICHELT
GKR/bls
cc:
J. H. Mudge (201)
J. V. Muncie (36)

411084 1552