RPC

CONFIDENTIAL

excerpted from SMIC Casting Section Mtg

Memorandum
1979 January 8
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RE: Asbestos Replacement Program

KPK 79-01-15

HINES: REDUCE R&M OF METAL TRANSFER AND APPLICATION DEVELOPMENT - 12B2031101

Asbestos-Free Board Products

Progress:

1. A meeting has been scheduled with Johns-Manville on 79/1/16 to discuss their asbestos-free board products. Discussions will center upon Alcoa's plant trials and laboratory testing as well as their new header grade material (Marinite H).
2. Reportedly, Vernon will completely change from molten metal Marinite to heat-treated Marinite I for header applications. Ingots have been successfully cast from tool and jig and 635mm (25") FDC asbestos-free headers.
3. The Marinite I order was received and the boards have been received and heat-treated. Material will be distributed to plants for testing.
4. Heat-treated Marinite XL has shown promising results at ATC as 508mm x 1092mm (20" x 43") sheet ingot headers and backup boards. Six boards have been sent to Warrick for trial.
5. Preliminary feedback from Badin & Wenatchee indicate Marinite XL can be successfully used for small HDC headers.
6. Heat-treated Pyrotherm B-1 was found to be too fragile for sheet ingot headers. Difficulty was encountered in machining.

Program:

1. Continue to monitor trials on Marinite XL, Marinite I, and Pyrotherm B-1 boards.
2. Conduct further laboratory tests on temperature effects on shrinkage, loss on ignition, and corrosion for Marinite I.
3. Finish evaluation of an alumina-silicate material, Insural, supplied by Foseco.

DC SHEET INGOT - COMMON ALLOY (CERAMICS) - 12A1071105

Progress:

None (new project)

Program:

None

PLAINTIFF'S EXHIBIT AL-1483

VanLinden: RAPID SOLIDIFIED STRIP CASTING - 12A10911

Progress:

1. Preliminary tests with vertical upwards strip casting were encouraging. A head change of 8cm (~3") and a pouring temperature variation of 25°C could be achieved without overly affecting the process. This suggests a greater tolerance for those variables than encountered in the downward casting attempts.
2. The design of the circulating continuous supply unit has been halted awaiting the crystallization of the strip programs.

Short Term Goal:

Demonstrate the feasibility of the "long mold" roll strip casting principle for alloys like 3004, 6010, etc.

Program:

None - See No. 2 under Progress