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INTRA-COMPANY CORRESPONDENCE

To Mr. R. J. McEvoy

From R. F. Shannon

Date November 8, 1966.

cc Mr. R. E. Davis
Central Files

Subject KAYLO PRODUCT
DEVELOPMENT PROGRAM

This memorandum is to confirm the changes in emphasis we are making in the I & C sponsored Product Development phase of the Kaylo program as a result of decisions made during the I & C Marketing Review Meeting of November 4.

Per Mr. Ladd's instructions, we will, in addition to providing R. Wong technical support on development of a high temperature binder, direct our efforts to three programs in 1967. They include:

1. Complete the stress corrosion batch program. Obtain final approval from duPont and get the product into production. Mr. Ladd stated that if the physical properties are not equivalent to present K10 Kaylo, he will market it as a 'special'. Otherwise, he will extend it across the board. He further directed us not to spend a lot of time attempting to upgrade the strengths of the product so as to be able to extend it across the board.

2. Conduct a feasibility study to determine whether asbestos fiber used to reinforce Kaylo can be replaced with other types of reinforcing fibers.

3. Conduct a feasibility study to determine whether cotton can be used to reinforce Kaylo.

Mr. Ladd stated the nine points for product improvement as outlined by Mr. Vyverberg were all desirable and could be used as long term objectives. However, in view of the completely sold out position of the Berlin plant, his belief that properties of Kaylo cannot be improved to any measurable degree and the urgency of the program directed toward elimination of asbestos from Kaylo, he requested we postpone items 2, 3 and 4 of Mr. Vyverberg's lists, the items which Vyverberg had requested us to work on in 1967 to a later date. Items 2, 3 and 4 include improved breakage, 1600° F product and water repellency.

RFShannon

R. F. Shannon

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OWENS-CORNING FIBERGLAS CORPORATION

INTRA-COMPANY CORRESPONDENCE

TECHNICAL CENTER — GRANVILLE, OHIO

LOCATION OF: Mr J. F. Vyverberg New York

FROM: R. F Shannon Granville

SUBJECT: KAYLO R & D PROGRAM:
REPLACEMENT OF ASBESTOS

November 30, 1966

cc: Mr R J McEvoy Granville
Mr. R. E. Davis Granville
Mr O W Pfeifer, Granville
Central Files

In the Minutes of the I & C - R & D Review Granville Ohio November 4 page 5 item 2e, I was asked to "lay out a program including timing and costs to replace asbestos reinforcement in Kaylo with cotton or some other appropriate material".

As you know we were directed by Mr. Ladd, during the November 4 meeting to limit our efforts in 1967 to completing the stress corrosion program and to the carrying out of a feasibility study on cotton and/or other types of fiber for reinforcing Kaylo.

Completion date for the feasibility study will be December 31 1967 Target dates for the various phases of the program will be set after we begin a program what fibers are commercially available and after we review with the glass technologist the problems we will encounter in obtaining specially formulated and fiberized alkaline resistant glass fibers The total Kaylo Product Development proposed budget for 1967 is $41 239 The cost of the feasibility study is estimated at $25 000 the remainder going to completion of stress corrosion.

Attached is a copy of the 'pert' chart I prepared for the feasibility study As you will note our efforts will be directed toward the evaluation of cotton fibers alkaline resistant and/or surface coated glass fibers and various commercial fibers including rockwool, fibrous minerals ceramic, metal and organic fibers

To differentiate from the glass fiber reinforcement program carried out four or five years ago, we plan, with the assistance of Glass Research, to develop an alkaline resistant glass fiber which can be incorporated directly into Kaylo batch. Also another look will be taken at costing 'textile waste' to make it suitable for use as reinforcement for Kaylo

After our initial screening of the various candidate fibers, we will select two or three which show the greatest promise of surviving the Kaylo process and providing reinforcement in the finished product. These will be re-evaluated in sufficient depth to obtain representative physical and thermal properties, costs and identification of process problems which could be caused by the switch over in the type of fiber used. The data will be assembled, evaluated and a recommendation will be made based on the results obtained.

If a fiber is found having a very high probability of success of replacing asbestos in Kaylo, we will recommend to Marketing they support the R & D effort that will be required to scale the fiber up from the laboratory feasibility study stage to full scale Plant usage in all Kaylo products.

R F Shannon

R. F. Shannon

RFS/ris

Attachment

Feasibility Study - Replacement of Asbestos Fibers in Kaylo