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OWENS-CORNING FIBERGLAS CORPORATION

INTRA-COMPANY CORRESPONDENCE

TECHNICAL CENTER — GRANVILLE, OHIO

SECTION OF: Mr J. F. Vyverberg New York — November 30, 1966

FROM: R. F Shannon Granville — cc: Mr R J McEvoy Granville; Mr. R. E. Davis Granville; Mr. O. W Pfeifer, Granville; Central Files

SUBJECT: KAYLO R & D PROGRAM
REPLACEMENT OF ASBESTOS

In the Minutes of the I & C - R & D Review Granville, Ohio November 4 page 5 item 2c, 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 obtain a plan on 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 coating '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.

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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

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