FILE NAME: Quigley (QUIG)

DATE: 0000

DOC#: QUIG044

DOCUMENT DESCRIPTION: Industry Warning Information

Re: Non-Asbestos Insulation Block, Castable, Trowel and Gunnning Mix

You are probably aware that asbestos in insulating materials has become a controversial subject as to how it affects the health of individuals exposed to it. The OSHA requirement of 5 fibers per cubic centimeter is so restrictive that it essentially prohibits the use of asbestos in insulating materials, regardless of the amount of asbestos in the product. The dialogue about asbestos has been going on for a number of years and an awareness of the possible health hazards finally resulted in the OSHA standards.

In 1970 the Quigley Company, with the aid of one of the largest public utilities, embarked on a development program which would not only free their (calcium silicate type) insulating material of asbestos but would be tailor made for their needs to their specifications.

Broadly speaking, the material had to possess the following characteristics:

a. The product must be asbestos free, and not include any other hazardous ingredients

b. The product (especially in block form) should maintain its structural integrity over the life of the installation

c. The product should have a 1800°F service limit, to allow it to be used over a wide range of applications

d. The thermal conductivity should have a range of 0.5 to 0.9 over a mean temperature range of 500°F to 1000°F.

e. The chloride content should be as low as possible for stainless steel applications

f. The block insulation should create a minimum of dusting during cutting and fitting.

The development program resulted in Quigley's non-asbestos product called "Panelex", which is completely free of asbestos, has a total chloride content of 10 ppm. and is available as a castable, block, trowel and gunning mix. It is now being used to insulate turbines, boilers and wherever insulation of this type is required.

It may be of interest to mention the sizes of block that have been agreed upon. Since many boiler walls required a 4 inch thick block, many situations would arise whereby the wall did not stay in plume and difficulty was encountered in placing a 4" block in a 3½ inch space. Furthermore, the ever present desire to cover more sq. ft. per block was throroughly investigated. The result was to standardize on a 24"x24"x3½" block, which covered 4 sq. ft. at a time. Where there existed ribs on the casing the block would be cut to whatever size the situation dictated.

The Quigley Company feels "Panelex", and our reputation of manufacturing high quality specialized refractory and insulations can be of great service to the power industry, and we would like to have the opportunity of discussing with you in detail what we have to offerand how we can be of service.

I am attaching for your consideration our technical data sheet on "Panelex" and our OSHA data sheet. If you feel we can be of service to you please fill out the enclosed post card and we will have a sales representative call if you so desire.

Thank you for reading this far, it is certainly appreciated.

Very truly yours,

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