

General Offices, St. Louis, Missouri

November 7, 1961

Chocolate Bayou Project, Insulation
Specifications.

Memo Dated Sept. 8, 1961 - R.J.G. to B.G.E.

R. E. [unclear]
W. L. [unclear]
F. E. [unclear]
S. E. Wilson
C. W. Stolar

Raynold J. Green

Your reference memo with copies of letters from Mr. R. G. Shiselak and Mr. W. H. Doyle have been given serious consideration and study. I do not think it is practical to run the laboratory test as requested by Mr. Doyle. I feel that the investigation and study made by Monsanto and material suppliers could be adequate.

In order to assure Mr. Doyle that the 40 minutes figure is not just a figment of some salesman's imagination. I am attaching copies of our back-up information. Monsanto has been as concerned about the fire resistance quality of our insulation as F.I.A. We have not relied entirely on salesman, but have done a large amount of investigating and checking ourselves.

The following attachments may be transmitted to Mr. Doyle for his examination.

EXHIBIT I - One copy each of two series of color photographs taken by Union Asbestos and Rubber Company. One series of six pictures was taken of a vertical pipe test and one series of eight pictures was taken of a horizontal pipe test. A copy of a memo from Union Asbestos explains the various pictures. I feel these pictures back-up the information given us by Union Asbestos that the polyester polyurethane U-200 purchased for our cold insulation will not support combustion. This information was also verified by Bechtel Corp. in San Francisco. Bechtel's tests were not as extensive as the ones conducted by Union Asbestos, but gave essentially the same results.

EXHIBIT II - One copy of each of 8 color photographs taken by Union Asbestos and Rubber Company showing a horizontal piece of pipe insulated with U-200 and protected by 1" of Unibestos. The temperature ranges is estimated 1700° F. to 1900° F. for one half hour. The U-200 was damaged. However, our design is 1400° F with 2" of protecting material. I do not agree with Union Asbestos' statement, that by doubling the thickness, you can double the time.

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Mr. E. J. Green

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EXHIBIT III - One copy each of the following manufacturers data on the insulation material we are purchasing for Chesapeake Bayou.

- A. Eagle - Fisher IV Supertemp Black
- B. Union Asbestos & Rubber Co. U-335.

EXHIBIT IV - Two copies of Progress Report No. 1 on "Unsteady-State Thermal Gradient through Insulating Slab", by C. W. Staler. This report gives the details of how we arrived at the 40 minute protection of the polyethylene.

E. G. Harshbarger.

EGH:jn

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