FACTORY INSURANCE ASSOCIATION

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July 15, 1970

American Maize-Products Company
113th Street and Indianapolis Boulevard
Roby, Indiana 46326

ATTENTION: Mr. R. W. Bales

SUBJECT: FIA File No. 6523

RE: Proposed Installation of Shrink Film Packaging System

Gentlemen:

This will acknowledge receipt of one (1) copy each of Vapor Corporation Installation Manual Bulletin No. 1D-100-24, Revision A and Monsanto Bulletin O/FF-15, "Therminol Applications Unlimited", transmitted by you under your cover letter dated July 10, 1970. This information refers to the proposed employment of a Vapor Corporation liquid phase heater in conjunction with Monsanto heat transfer liquid, Therminol FR-1, as a heating system for reference installation.

In our June 24, 1970 meeting held in our Office, it was indicated to you that of the alternate heating systems proposed, a steam heat transfer system was the most desirable and a liquid heat transfer system, the least desirable, from a fire protection point of view. Subsequently, in the writer's letter to you, dated July 13, 1970, only those requirements applicable to heating systems this Association deemed suitable were presented.

With regard to the information submitted, please be advised that the general arrangement of the liquid phase heater is acceptable, but formal approval of detailed working drawings pertaining to the unit by this Association will still be necessary. However, Underwriters' Laboratories, Incorporated Gas and Oil Equipment List indicates that Therminol FR-1 is a mixture of chlorinated, aromatic hydrocarbon liquids which forms weakly combustible and explosive mixtures with air at temperatures of the order of 291°F., and has a closed cup flashpoint of 350°F. and an ignition temperature of 1206°F.. On this basis, then, we would require that the liquid phase heater be located in a separate, sprinklered noncombustible adjoin and that carbon dioxide, or at minimum, steam flooding of the heater fire box be provided.

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Other requirements, outlined in the writer's letter of July 13, 1970, under the heading GENERAL would be applicable in this case as well. I trust this evaluation is sufficient for you to proceed in this project, but should you have any questions, feel free to call or write.

Very truly yours,

FACTORY INSURANCE ASSOCIATION

R. A. Gonzalez

R. A. Gonzalez
District Engineer
Chicago Field Office

RAG/pm

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