June 3, 1970

Mr. W. Schoeneborn
Great Atlantic & Pacific Tea Company
National Bakery Division
Room 2340
420 Lexington Avenue
New York, New York 10017

Dear Mr. Schoeneborn:

Pursuant to our discussion of May 28th, 1970 I have attached Therminol 66 product data.

In the white data bulletin you will notice the flash and flame point are listed for the Therminol 66 heat transfer liquid. Should the Therminol 66 accidentally leak from the system at 550°F., an ignition source would be required to establish a fire. The fluid would not self-ignite until temperatures on the order of 705°F. are reached.

Concerning the installation of fire protection equipment for heating systems containing a combustible heat transfer liquid, I would suggest that you contact the insuring agent for your plant site to obtain recommendations. As a general guideline, we would install either a steam or CO_2 fire snuffing system to the heater chamber. These systems can be either manual or automatic. It is also advisable to install a high temperature stack switch. In the event of a coil failure such as the one recently experienced in your heater, the stacks which would indicate high temperature and shut the burner and pump system down so that additional fluid would not be forced into the heater chamber to feed the fire. The Va-Power heater is a relatively tight unit and I would not expect a minor fire inside the heater to cause a flame to extend outside the heater shell. In the event of a massive pipe failure it would be possible to have burning oil outside the heater shell.

Of course, the degree of failure and the subsequent degree of fire would determine the amount of damage that might occur to the heater.

DSW 434941

STLCOPCB4088001

The construction of an isolating curb or fire wall around the heater system is an acceptable protective action. I would recommend, again, that your insurance company be confronted to determine the extent of fire protection required for this installation and the subsequent effect on insurance rates. If we can be of any further assistance, in this matter, please feel free to contact either Jay Pullman who is our Therminol specialist located in New York City at 277 Park Avenue, New York, New York 10017 (212) 922-4111or me in St. Louis.

Very truly yours,

Donald E. Roush
Heat Transfer Specialist
Functional Fluids

/dn
Attachments

bcc: J. R. Fallon
J. S. Pullman - New York
D. A. Olson

DSW 434942

STLCOPCB4088002