March 30, 1971

Mr. E. J. Claudel
Gulf Coast Aluminum Co.
P.O. Box LL
Lake Charles, La. 70601

Dear Mr. Claudel:

The leakage of Therminol FR-1 around operating equipment can present an obnoxious odor problem to employees working in the area. The Scott air-pac with a self-contained air cylinder is used in those instances where the fume loading eliminates suitable air for breathing. The respirator and gas mask types are used where vapor loading is light enough to allow sufficient removal of vapors and provide satisfactory breathing air. To reiterate gas mask recommendations:

> A clear view chin type gas mask is available through Mine Safety Appliances; catalogue no. [illegible] for the mask with cartridge no. [illegible]; the respirator type from MSA has catalogue no. CR5556 and cartridge no. CR44135.

Vapor concentration levels for Therminol FR-1 products (chlorodiphenyls) are listed in the American Industrial Hygiene Assoc. Hygenic Guide Series. The maximal atmospheric concentrations for eight hours are 1 mg Therminol FR-1 per cubic meter of air. These results are based on chronic animal inhalation studies. Ten mg of Therminol FR-1 per cubic meter of air has been reported as unbearably irritating. Exposure to vapors of hot Therminol FR-1 brings irritation to the eyes, nose, and throat at levels which have not caused acute illness and preclude the likelihood of voluntary exposure to immediately hazardous concentrations.

Therminol FR-1 is readily absorbed through the skin with an action similar to that of common organic solvents where contact leads to removal of natural fats and oils with subsequent drying and cracking of the skin. Should Therminol FR-1 contact skin immediate treatment consists of thoroughly washing the contacted area with soap and water. Clothing should also

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be ruptured and laundered if it is saturated with Therminol FR-1. I have included a toxicity and safe handling statement for Therminol FR-1 heat transfer fluid. Also included is our bulletin on maintaining leak-free systems when using Therminol FR-1.

If we can be of any further assistance, please feel free to contact either our Therminol specialist serving your area who is Mr. Ben Stegen located in Houston at 1300 Post Oak Tower Bldg. 5051 Westheimer, Houston, Texas 77027 or the product group in St. Louis.

Very truly yours,

D. E. Roush
Product Specialist
Heat Transfer Fluids

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Enclosures

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