United States Steel Corporation
525 William Penn Place
Pittsburgh, Pa. 15230

KENNETH M. MORSE
DIRECTOR OF INDUSTRIAL HYGIENE

USS

HEALTH SERVICES DIVISION

September 22, 1965

Dr. Emmet Kelly
Medical Director
Monsanto Chemical Company
800 N. Lindberg Boulevard
St. Louis, Missouri

Dear Dr. Kelly:

As you recall, the Plant Medical Director of our Edgar Thomson Works, Dr. Joe Bentz, talked with you relative to an odor problem associated with the use of synthetic hydraulic oil MCS-312. Subsequent to this, we had a meeting at one of our other plants on the same subject, and I had an enjoyable visit by Mr. Dale F. Smith of your Functional Fluids group of your Organic Chemical Division, who was accompanied by Mr. M. G. Nichols of your local sales office. I believe this cleared up several points regarding the composition and potential health problems associated with the use of not only your MCS-312 fluid but synthetic fluids generally.

Following this visit, it occurred to me that it would be rather appropriate if we could have someone in the field of industrial medicine to talk at one of our semi-annual meetings of our Plant Medical Directors. Accordingly, I made the suggestion to Drs. O'Connor and Bundy, and they are in full agreement. Therefore, they have asked that I extend to you an invitation to speak at our next Administrative Medical Meeting, which will be held in Pittsburgh on November 9. I would like to have you talk on the general subject of synthetic hydraulic fluids and their potential

health problems associated with their normal use and excursions from normality, such as major leaks in pipelines and use under elevated temperatures in the order of 250° F. and higher temperatures to which such fluids may be exposed as the result of fire. In the latter aspect, our concern would be the products of thermal decomposition. We would be exceedingly grateful if you could talk for an hour starting at 10 a.m. on the morning of the 9th, and if you accept and wish 15 to 30 minutes more time, we would be most happy to assure you of this additional time. Also, should you wish to make this a joint presentation on the part of both Elmer Wheeler and yourself, this would, of course, be most acceptable.

The use of oils, both synthetic and natural, under higher pressures than previously used and at higher temperatures, is steadily increasing, in my opinion. A good deal of information and misinformation relative to health hazards associated with lubricants as they apply to inhalation, skin and ocular effects of over-exposure or direct contact needs to be discussed by those who have had most direct association and knowledge in this chemical area.

As we are now making up the agenda, it would be most appreciated if you could give us a very early reply, which we hope will be in the affirmative.

Sincerely yours,

Kenneth M. Morse

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cc: R. B. O'Connor, M. D.
M. Bundy, M. D.
A. M. Edwards, M. D.