Cincinnati

January 11, 1955

J. B. Davis

KXOK

Processes Research, Inc.
2905 Vernon Place
Cincinnati 19, Ohio

Quoted below is a letter dated January 6, 1955, which I have received from Mr. W. P. Cadogan, Vice-President.

"Thank you for your letter of December 30, regarding the use of Pydraul 150 in our mobile hydraulic system.

"We are also considering the use of this same material as a warming fluid in the mechanical shaft seal chamber of a liquid oxygen pump. The metal surfaces in this chamber may range down to minus 50° F. Under these circumstances, the Pydraul 150 might contact oxygen gas (body of the Pydraul fluid at essentially ambient temperature). Would you expect any deterioration of the Pydraul 150 from oxidation?

"Also, it is possible that traces of the sealing fluid could enter the pumped oxygen stream and become a contaminant to the extent of perhaps a few parts per million. Since this oxygen may be vaporized and used for breathing purposes, we should like to know if the ingredients of Pydraul 150 would be toxic under these conditions.

"We should like to have the comments of your technical group on these aspects."

May we please have your comments on this matter as soon as possible? Thanks.

Frank I. Jones

FIJ/eh

Composition of Pydraul 150:

69.4% (w) Santicizer 141
23.1% (w) Araclor 1242
7.5% (w) Acryloid 794 (a polymethacrylate ester)

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