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NPACD-M

29 JUL 1954

Ansul Chemical Company  
Fire Extinguisher Division  
Marinette, Wisconsin

SUBJECT: Limits to Applicability of ANSUL Fire Extinguishing  
Equipment and Systems

Gentlemen:

Reference is made to your Form No. F5329 titled "The Master of Flame, Ansul Dry Chemical Fire Extinguishing Equipment". On page No. 9, is listed "Typical Hazards Which can Be Best Protected With Ansul Piped Systems." Item No. 12 is "Oil Storage Tanks".

Please advise maximum size of API vertical, above-ground storage tanks storing aviation fuel that can be protected with Ansul piped systems with equal effectiveness to that of foam and that will conform to recommendations of National Fire Protection Association. Are such systems available and recommended for tanks of 30,000 bbls nominal capacity having dimensions 73'-4" inside diameter x 40' high and where tanks are located in areas where annually atmospheric temperatures range from approximately plus 90°F. to minus 65°F.?

The above is needed to more fully inform this office of the practicality and the limits for application of Ansul systems, its suitability for a specific application and for evaluation of Ansul for use for fire protection in low temperature areas and especially for applications in lieu of foam systems where feasibility of operation of foam systems at low temperatures are subject to question.

The Ansul literature contains the phrase "ANSUL PLUS-FIFTY Dry Chemical". What meaning or significance is attached to the "plus-fifty"? Whereas the literature is clear on the use of nitrogen gas to pressurize the dry chemical container, and its use as entraining and propelling agent for the dry chemical, the chemical analysis of the dry chemical cannot be found in the available literature. Please furnish this chemical analysis and a description of the manner in which Ansul extinguishes fires of flammable liquids.

FOR THE DISTRICT ENGINEER:

Very truly yours,

ROBERT E. LEE  
Acting Chief, Engineering Division

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Anchorage, AK 99501

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Additional Information File 228-10

POL line - Hailes to Fbks.

1955-56 "Contaminated Areas" - fuel spill