



McGEE INDUSTRIES, INC.

McLUBE DIVISION

9 Crozerville Road

Aston, Pennsylvania 19014

Phone: 215-459-1890

April 20, 1981

Mr. Allan B. Hughes  
Louviers Building  
Engineering Department  
E. I. duPont de Nemours & Co., Inc.  
Wilmington, DE 19898

Dear Mr. Hughes:

It certainly was a pleasure meeting with you and I wish to thank you for the time you allowed George Finn and me to discuss McLube lubricants. McGee Industries specializes in molybdenum disulfide and fluorocarbon lubricants. These lubricants include oil dispersion, greases, pastes and dry film coatings. The catalog left with you covers most of our products, but we are always willing to consider the formulation of specific products to meet specific needs.

One immediate need you mentioned was for a Uncon fluid dispersion of molybdenum disulfide ( $\text{MoS}_2$ ). Based on our discussion, I believe either our McLube  $\text{MoS}_2$ -500 or McLube  $\text{MoS}_2$ -505 would fill your requirements. Actually, while McLube  $\text{MoS}_2$ -500, with 10 percent  $\text{MoS}_2$  and McLube  $\text{MoS}_2$ -505 with 2.5 percent  $\text{MoS}_2$ , do not meet your desire for a 5 percent dispersion, it is possible that one or the other might be satisfactory. If not, we would be pleased to manufacture a 5 percent dispersion, if the volume required is reasonable. Samples of McLube  $\text{MoS}_2$ -500 and McLube  $\text{MoS}_2$ -505 are being sent to you for evaluation.

The other project we discussed involved the trigger mechanism of a rifle. It is my understanding that you are looking for a lubricant that could be used in the field to free the corroded trigger mechanism and also for a lubricant or coating to be applied to the mechanism during production which could reduce or eliminate the corrosion. The first problem may be the easier to solve and for this I am sending you a sample of McLube  $\text{MoS}_2$ -710, an excellent penetrating oil formulation which is used to free corroded connectors and sliding surfaces. A product similar to McLube  $\text{MoS}_2$ -710, at one time, was sold in aerosols but was discontinued a few years back. If you find McLube  $\text{MoS}_2$ -710 does the job for you, we can always consider putting it again in aerosols.

Working since 1954  
to provide industry with better product and service

Mr. Allan B. Hughes .

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While it may be impossible to find a coating that will permanently eliminate corrosion of the trigger parts, I would like to suggest the use of one of our fluorocarbon coatings. These coatings may not last for the life of the trigger but they should significantly reduce corrosion. Samples of two products, McLube 1725 and McLube 1775, are being sent. Both products contain a TFE polymer but differ in the binder used. McLube 1725 contains a non-flammable solvent and produces a relatively soft coating. McLube 1775 uses a flammable solvent and produces an extremely hard coating. Of the two, I believe McLube 1775 will provide the best corrosion protection. Application of McLube 1725 or McLube 1775 can be accomplished by spraying, dipping or even wiping. There is no need to heat cure these coatings.

It is conceivable that neither McLube 1725 nor McLube 1775 will be exactly what you need. However, in evaluating these products they can give us some idea as to how practical this approach is. If modifications are indicated, these can be considered.

Our relationship with Bill Clark and DuPont has been most satisfying in the past and we certainly hope it will continue. For your reference, enclosed is a listing showing duPont facilities that purchase McLube. As you might well suspect, we would be pleased to increase our business with DuPont.

Please let me know if you have any questions concerning the samples being sent. Do not hesitate to contact me if I can be of any help.

Very truly yours,



Mark D. Finn  
Sales

MDF/lad

REF: GEORGE FINN

Enclosures