co: G.M./ Calhoun M.H./Nalkar

llion, New York April 18, 1968

W. E. LEEK

MODEL 700 BOL QUALITY - COMPUTER AIDED DESIGN

Here is the memorandum from P.H. Burdett we discussed and in which we are being asked to consider what improvement if any might be accomplished through use of the computer as regards to established tolerances in detecting interferences beyond accepted levels, etc.. This has grown out of the recent incident of a trigger interference which was published in "Consumer Reports" magazine.

From Mr. Burdett's memo one might conclude that there is need for further information free Management regarding expected levels of quality from our standards of sampling, and how all of this including the economics of established tolerances relates to one of manufacture. Mesers. Fox and Presnell might go further in this area, and is the meantime we have answer regarding the specific computer applications. For example, I believe we reported earlier that with this system is combination with N/C model making it would be possible to build sample guns from design that would more nearly represent expected range of dimensional variations for the purpose of more reliable test results. However, we may not be thinking specifically of computer application for establishing tolerances of making interference checks. I believe that you plan to discuss this with Ed Yetter.

Perhaps the questions which have subsequently arisen may have come about by fact that Ilion reported four things to do to further saleguard specific trigger interference item in the M/700.

First, the design was described as being changed to increase clearance between trigger and trigger quard. This clearance may have been set up originally to give a desired appearance which is now being compromised.

Second, it was reported that the tools and gages for the stock injetter were being changed to reduce probability of a tolerance buildup among the receiver, magazine and floor plate cuts and the guard screw holes.

Third, it was planned to transfer the M/700 stock inletting to another machine which would provide better dimensional control.

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Pinelly, it was reported that all of the M/700 rifles were being gaged to assure clearance between trigger and trigger quard at impaction.

I have the impression that this latest request to analyze our tolerance checks for interferences should be simed at the first item above as relates to the trigger clearance limited by the model drawings.

Please be prepared to discuss further with Dr. Calboun during his visit this coming week.

S. M. Alvis

Ilion Research Division

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