

CC: H. A. Brown  
 R. H. Grace  
 H. J. Hackman  
 W. E. Leek  
 M. H. Walker  
 E. K. Wheat

April 12th, 1948

TO: S. W. Alvis  
 FROM: R. H. Grace  
 SUBJECT: ACCURACY TESTING

W. E. Leek has brought to my attention the extreme need for standard guns and miscellaneous equipment to permit more reliable outdoor accuracy testing. I would like to suggest a meeting in the Gun Room at 1 o'clock on Tuesday, April 13th to discuss this problem. People receiving copies of this letter are asked to attend. The following are involved:

*He called*  
*J*

1. Standard Guns - We should provide bull guns (heavy barrel) in all calibers in which we expect to get reliable accuracy information. At present these are 30-06, 300 Savage, 300 HAM Magnum, 270 Winchester, 257 Rem. Roberts. With these guns we will be able to check on the shooter, ammunition and scope variables. Accuracy testing would include firing the same ammunition, same shooter and scope through the standard gun of the particular caliber and through the unknown gun (model, pilot or regular production). Results would be expressed as max. possible (that is, bull gun results) vs. actual performance for unknown gun.
2. Bench Rest - Two bench rests of sturdy design should be built for this work. The present bench rest is the personal property of W. E. Leek and through extensive use it has now become unsatisfactory.
3. Gun Protection - Outdoor shooting during the next several months will be extremely uncomfortable unless some sort of umbrella or canopy protection is provided.
4. Trailer - A small trailer should be provided to carry shooting rests, target racks, umbrellas, ammunition and guns from the plant to the target area. We have in the past imposed upon the shooters to use personal cars which in turn damages the upholstery and trunk doors of these cars. The amount of time required to clear these equipment items to and from the plant is now excessive.
5. Permission to use target area. - We have been making use of land owned by P. B. Luthersford for this work. If we are to continue, some formal permit should be obtained covering this use.


It is recognized that accuracy is an extremely important part of our test program. It is my personal opinion that we are quite fortunate in having

S. M. Davis

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excellent shooters available for this work. I believe you will agree with me that the least we can do is to provide these shooters with the necessary standard guns, equipment, etc. to facilitate this work.

  
R. H. Grace  
Engineering Section  
Illion Technical Division

ENG:RP