

31 Aug. '93

To: K.W.Soucy
From: J.R.Snedeker

Ref: Monthly Report for Aug '93

Safety, Health and Housekeeping:

Our effort to reduce the level of noise from shooting in the test lab shooting room is temporarily on hold. We have reduced the noise in one trial shooting booth from noise measurement readings of 150+ dB to approximately 115 dB - a very significant reduction in the noise level. This was primarily accomplished through the use of a modification to the shooting tube that goes from the shooting port to the water shot catcher. We are now waiting for the contractors to return to the area from other work in the plant to make the same modifications to the other booths.

Maintenance:

A new air handling system for the shooting booths has been proposed by plant engineering for the improvement of air flow away from the testers and to correct an exhaust discharge to atmosphere issue related to regulations. I now have quotes for the necessary equipment and ductwork changes required and will put together a project.

Test Programs:

We continue to work on the Peerless. We are now down to essentially one problem (from the point of view of the test lab) that needs correction, an intermittent fail to connect problem for which design has proposed a solution. It is this modification that is now being tested and evaluated through the use of dry cycle testing, live fire testing and strain gage work. We expect to have this testing completed in the near future.

We are still having difficulty in getting the XP-100, 7mm BR "Silhouette" through Trial & Pilot Acceptance Testing. The accuracy problems related to free-floating of the barrel appear to have been solved based on the last round of testing, but the weight and one visual item are still outstanding. To pass, the total gun weight cannot exceed 4 lbs or it will not qualify for competition - approximately half of the guns built to date exceed this limit by 1-2 oz. The visual problem involves the aluminum bolt plug and the powder coating finish. This finish is easily chipped off in two places on the bolt plug and this leaves two bright metal areas on an otherwise matte black finish. Both Design and Process Engineering have proposed changes to correct this problem.

Testing on the M/700 Detachable Magazine Box continues as parts are supplied by Design. Some areas of concern have been brought to light but are being addressed by Design on an ongoing basis.

Other testing this month involved the m/700 Senderos, 522's, an accuracy test on the m/700 for Process Engineering to evaluate a proposed process change, S.A.M.M.I. shotshell and rimfire P&V testing, and new cantilever scope design evaluations.