

ILION RESEARCH DIVISION
MONTHLY PROGRESS REPORT
AUGUST 1978

-3-

NYLON 66 IMPROVEMENTS

Four bolt handles which allow the N-66 to be locked open were tested in two Nylon 66's along with three barrel mounted scope mounts and one control receiver mounted scope. Each part was shot a total of 10,000 rounds plus accuracy.

The previous bolt handle breakage problem appears to have been solved by the use of Zytel ST-801. There was some wear on the front and rear working edges of the handle and actuation was felt to be inconvenient. These problems will be corrected on a subsequent set of parts.

The barrel mounted scope mounts exhibited no mechanical problems. Accuracy was evaluated for grouping and for repeatability of point of impact. Grouping ability was equivalent between the new mount and the standard control mount. This has not been a significant problem with the N-66. The problem has been one of repeatability of point of impact. Both mounting systems were found to vary point of impact as a large number of rounds were put on the guns. This was later found to be due to the scope adjusting screws turning while firing. Remington's promotional scopes (Universal and Tasco) were used for the test. Future testing will include scopes from Fontaine Industries, Tasco and Universal, with the last two possibly altered to prevent scope adjusting screw movement while firing. Scope mount costs are not yet available.