

Experimentation and Data Collection For Improved MK19 First Round Burst Accuracy

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ABSTRACT:

The objective of the study was to determine how accurately a soldier could determine the range to stationary and moving targets using an unaided laser range finding device coupled to a thermal or TV imager. Accurately determining this range is critical to enhancing the first round burst accuracy of the MK19 weapon system.

The portion of the test I was involved with revolved around setting up the range upon which the system would be tested. The range included targets arranged in various formations between 300 and 800 meters. In each formation, individual targets were separated by approximately 10 meters. Since the objective of the study was to determine the accuracy of the system in the hands of ordinary soldiers, and not measure his ability to detect targets, a moving target was used to indicate the location of each target group.

Through this study, the team hoped to determine if laser range finding with an unaided system would be feasible on stationary and vehicle mounted crew served weapons. Making such a determination would help direct the team toward more aided target acquisition and range finding systems.

KEYWORDS: MK19, first round burst accuracy.

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