TD 63-6920-701-10

TECHNICAL MANUAL

OPERATOR'S MANUAL

MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM (MILES 2000)

TACTICAL ENGAGEMENT SIMULATION SYSTEM (TESS)

FOR

INDEPENDENT TARGET SYSTEM (ITS)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS
You can help improve this manual. If you find any mistakes or you know of a way to improve the procedures, please let us know. Mail your letter, DA FORM 2028 (Recommended Changes to Publications and Blank Forms), or DA FORM 2028-2 located in back of this manual directly to Commander, Simulation, Training, and Instrumentation Command (STRICOM): ATTN: AMSTI-OPS-L; 12350 Research Parkway, Orlando, FL 32826-3276.

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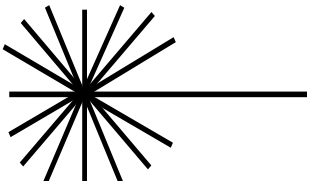

LASER WARNING

Suitable precautions must be taken to avoid possible damage to the eye from overexposure to radiated laser energy. Precautionary measures include the following:

- **NEVER fire the laser** at personnel within 10 meters.
- **NEVER look at the laser transmitter** through magnifying optics such as binoculars, telescopes, or periscopes at ranges less than 40 meters.

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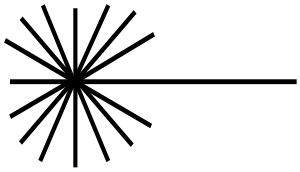

LASER WARNING

Suitable precautions must be taken to avoid possible damage to the eye from overexposure to radiated laser energy. Precautionary measures include the following:

- **NEVER fire the laser** at personnel within 10 meters.
- **NEVER look at the laser transmitter** through magnifying optics such as binoculars, telescopes, or periscopes at ranges less than 40 meters.

WARNING

- To prevent personal injury, turn all system power to the equipment off, including the CU, before conducting any removal/replacement procedures.
- Verify MGSS (M1A1/M1A2 only) or DIFCUE Firing Unit (if installed) is in the SAFE position before powering up the MILES 2000 System. Serious injury/death could occur.
- Never touch the vehicle exhaust equipment when installing or removing MILES 2000 equipment. The exhaust can be very hot and cause severe burns.

FIRE/EXPLOSION WARNING

- Tape primer is toxic and highly flammable. Do not spray near heat, open flame, or sparks. Use primer only in well ventilated areas. Do not permit smoking in the area. Injury to personnel may result.

CAUTION

- Remember to move the Detector Array out of the way prior to performing PMCS
- Do not let MILES 2000 cables touch the vehicle exhaust or heating equipment. Heat can cause damage to cables and/or malfunction of the equipment.
- When installing the Detector Array on a vehicle that has either an M2 or TOW mounted, arrange the detectors so that the detectors and cables do not hamper the loading or operation of the weapon. The rear detector should be placed above the taillights so that the tailgate may be raised/lowered during TOW use.

For information on **FIRST AID**, refer to **FM 21-11/MCRP 3-02G**.

- NOTE: To operate the IWS, refer to TD 23-6920-703-10/TM 6920/07722B-10/13, IWS operator's manual.
- NOTE: To operate the DIFCUE, refer to TD 9-6920-893-10/TM 6920-10/5, DIFCUE operator's manual.
- NOTE: To operate the MGSS, refer to TD 9-6920-892-10/TM 6920/08953A-10/11.

HOW TO USE THIS MANUAL

INTRODUCTION.

This manual contains operation instructions for the Multiple Integrated Laser Engagement System (MILES 2000), Tactical Engagement Simulation System (TESS) when configured on the Independent Target System (ITS).

MANUAL DESCRIPTION.

This manual is divided into three chapters. Chapters are further divided into sections. The chapter descriptions are provided in the following subparagraphs.

Chapter 1 is an introduction that provides general information, equipment description and data, and theory of operation. It also contains a list of abbreviations and a glossary of terms.

Chapter 2 provides operating instructions on the MILES 2000 equipment for the Independent Target System (ITS).

Chapter 3 describes how to troubleshoot and maintain the equipment. MILES 2000 equipment does not need lubrication, so there is no section on lubrication included.