

**BY ORDER OF THE COMMANDER
ARNOLD AIR FORCE BASE (AMC)**



AIR FORCE INSTRUCTION

48-139

**ARNOLD AIR FORCE BASE
Supplement**

09 FEBRUARY 2024

AEROSPACE MEDICINE

**LASER AND OPTICAL RADIATION
PROTECTION PROGRAM**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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RELEASABILITY: There are no restrictions on the release of this publication.

OPR: AEDC/TSD-SG

Certified by: AEDC/TSD
(Colonel Warren E. Withrow)

Pages: 4

This publication supplements AFI 48-139, *Laser and Optical Radiation and Protection Program*, as follows: It establishes the responsibilities and procedures regarding the management of lasers at Arnold AFB. This supplement prescribes policies and responsibilities for all military, civilian, and contractor personnel assigned to Arnold Engineering Development Complex (AEDC) and its geographically separated units not located on an installation with an active medical group or military treatment facility. During mission essential, contingency, or emergency operations, commanders may waive the provisions of this instruction; however, when commanders waive procedures, they must ensure all supervisors exercise caution, make certain all subordinate personnel are aware of hazardous noise conditions, and take actions to protect the health of personnel. Ensure all records created as a result of the processes prescribed in this publication are maintained in accordance with (IAW) Air Force Instruction (AFI) 33-322, *Records Management and Information Governance Program*, and disposed of IAW Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS). Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the AF Form 847, *Recommendation for Change of Publication*; route AF Form 847s from the field through the appropriate functional chain of command.

2.17. (Added) Bioenvironmental Engineer (BE) assigned to AEDC's Test Support Division (TSD) will serve as the AEDC ILSO. In the absence of the of the TSD BE the Host Medical Treatment Facility (HMTF) (96th Medical Group (Eglin AFB)) Bioenvironmental Engineer will provide Laser Safety Officer assistance on an as needed basis.

2.18.1.2. **(Added)** The HMTF IOEHWG will perform MSE reviews and approvals for AEDC IAW AFI 48-145, AFMAN 48-146, Occupational and Environmental Health Program Management, and ANSI Z136 Series.

2.24.15. **(Added)** Management officials of operations using lasers shall:

2.24.15.1. **(Added)** Ensure when multiple lasers or laser systems are present, designated Responsible Individuals (RIs) (appointed by letter) for all Class 3B and Class 4 lasers and laser systems will be responsible for managing overall operational safety of the laser, laser system, and/or laser area.

2.24.15.2. **(Added)** Ensure copies of the latest versions of ANSI Z136.1 and ANSI Z136.8 are available and referenced during operations.

2.24.15.3. **(Added)** Identify laser workers to Occupational Health and ILSO to ensure appropriate medical surveillance can be conducted. This written notification will include the type and power of the laser(s) that may produce exposure. This requirement shall be delegated to the RI.

2.24.15.4. **(Added)** Ensure personnel working with lasers receive eye exams before working with lasers if the worker is identified as a laser user by the workplace supervisor and by their respective Safety, Health, and Environmental (SHE) Office.

2.24.15.5. **(Added)** Provide laser workers with the necessary resources to ensure an effective laser safety program is maintained in all areas under their control.

2.24.16. **(Added)** Supervisors of personnel using lasers shall:

2.24.16.1. **(Added)** Ensure their employees receive required laser eye examinations before assigning them as laser workers.

2.24.16.2. **(Added)** Ensure their employees receive required laser safety training before assigning them as laser workers.

2.24.16.3. **(Added)** Immediately report any known or suspected hazardous laser radiation eye exposures to the ULSO and their respective Safety, Health, and Environmental (SHE) Manager.

2.26. (Added) Base Operating Contractor's Safety, Health, and Environmental (SHE) shall:

2.26.1. **(Added)** Inspect laser operations and review procedures to ensure compliance with applicable safety requirements of all contractor personnel who manage and use lasers. This shall be accomplished in conjunction with existing surveys and inspections.

2.26.2. **(Added)** Recommend controls to contractor work centers, as appropriate, for safety hazards associated with laser operations (i.e., electrical and other non-radiation hazards).

2.26.3. **(Added)** Manage the system hazard analysis process for lasers by coordinating appropriate technical review.

2.28. (Added) Facilities Support Contractor shall:

2.28.1. **(Added)** Maintain installation laser inventory records.

2.28.2. **(Added)** Conduct semi-annual laser inventories or as required when laser systems are introduced/removed from service.

RANDEL J. GORDON, Colonel, USAF
Commander

Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

(Added) AFI 33-322, *Records Management and Information Governance Program*, 27 July 2021

Acronyms

(Added) **AAFB**—Arnold Air Force Base

(Added) **AEDC**—Arnold Engineering Development Complex

(Added) **AFRIMS**—Air Force Records Information System

(Added) **DAF**—Department of the Air Force

(Added) **FSS**—Facility Support Services

(Added) **GSU**—Geographically Separated Unit

(Added) **HMTF**—Host Medical Treatment Facility

(Added) **IAW**—In accordance with

(Added) **IDMT**—Independent Medical Duty Technician

(Added) **MDG**—Medical Group

(Added) **NAF**—Non-Appropriated Funds

(Added) **OPR**—Office of Primary Responsibility

(Added) **RDS**—Records Disposition Schedule

(Added) **RI**—Responsible Individual

(Added) **SHE**—Safety, Health and Environmental

(Added) **TSD**—Test Support Division

Terms

(Added) **TSD—SG**— Unit Abbreviation for Arnold AFB's Medical Aid Station