

**BY ORDER OF THE COMMANDER
EGLIN AIR FORCE BASE**



AIR FORCE INSTRUCTION 48-109

**EGLIN AIR FORCE BASE
Supplement**

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Aerospace Medicine

**ELECTROMAGNETIC FIELD
RADIATION (EMFR) OCCUPATIONAL
AND ENVIRONMENTAL HEALTH
PROGRAM**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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AFI 48-109, 1 August 2014, is supplemented as follows:

This supplement serves to establish an installation EMF health surveillance program for Eglin AFB. It expands the guidance provided in AFI 48-109, *Electromagnetic Field Radiation (EMFR) Occupational and Environmental Health Program*. This supplement is applicable to all organizations on Eglin property which own/operate EMFR equipment. Refer recommended changes and questions about this publication to the office of primary responsibility (OPR) using the Air Force (AF) Form 847, *Recommendation for Change of Publication*. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with (IAW) AFMAN 33-363, *Management of Records*, and disposed of IAW Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS).

2.12.2. Additionally, unit commanders will ensure workplace supervisors responsible for the operation of potentially hazardous EMF emitters will prepare proposed EMF safety Operating instructions (OI) and training plans and send them to 96 AMDS/SGPB BE for review and approval. The IRSO can assist with preparation of EMF OIs and training programs when necessary.

2.12.3. Provide initial and annual EMF safety training to workers. See paragraph 4.4 for specific requirements.

2.13.5. Update the workplace EMF systems inventory as changes occur, and submit an annual summary to the IRSO by 1 October of each year.

2.15. **(Added)** Government Contract Originators. When a project or program requires the use of EMF equipment on the Eglin reservation by contractors:

2.15.1. **(Added)** Request a hazard evaluation and written approval for using the equipment according to chapter 4.

2.15.2. **(Added)** Ensure appropriate contract documents include the requirement for the contractor to request a hazard evaluation and written approval for using the equipment.

4.2.1.1. **(Added)** Hazard Evaluation and Approval Requirements. Potentially hazardous EMF radiation producing equipment, not covered by Safety Review Board process, must be evaluated for potential hazards prior to use. To ensure the hazard evaluation is completed in a timely manner, users must submit a written request for evaluation to the IRSO at least 30 days before the expected date of equipment use. Unless it is classified, information necessary to perform this evaluation must be provided with the request (**Note:** see Attachment 3).

4.4.1. Workplace supervisors in units with potentially hazardous EMF radiation producing equipment will schedule and document training, and maintain records of training. Training records must be retained for at least 3 years and must document subjects covered and dates training was provided.

4.4.1.1. **(Added)** IRSO or their alternate typically provides training to workplace supervisors who then provide the required training to other employees assigned to the workplace.

4.4.1.2. **(Added)** BE will provide a training outline upon request to assist workplace supervisors with developing a workplace-specific training plan and outline.

4.4.1.3. **(Added)** Training requirements for contractor employees should be included in contract specifications or other appropriate documents. Contractors must comply with federal and state laws dealing with the safe use of EMF radiation producing equipment.

EVAN C. DERTIEN, Brigadier General, USAF
Commander

Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

Acronyms and Abbreviations

AF—Air Force

AFRIMS—Air Force Records Information Management System

IAW—In accordance with

IRSO—Install Radiation Safety Officer

OPR—Office of Primary Responsibility

RDS—Records Disposition Schedule

Attachment 3 (Added)**DATA REQUIRED FOR HAZARD EVALUATIONS OF EMF EMITTERS**

A3.1. Hazard Evaluation and Approval Requirements for Unclassified Systems. All EMFR-producing equipment must be evaluated by IRSO for potential hazards before being used. To ensure the hazard evaluation is completed in a timely manner, users must submit in writing the following information to 96 AMDS/SGPB.

A3.1.1. Frequency.

A3.1.2. Power level (peak).

A3.1.3. Modulation characteristics and beam elevation.

A3.1.4. Waveform [continuous wave (CW) or pulsed].

A3.1.4.1. If pulsed:

A3.1.4.1.1. Pulse repetition frequency (PRF)

A3.1.4.1.2. Pulse width (PW)

A3.1.5. Antenna information:

A3.1.5.1. Size

A3.1.5.2. Beam width

A3.1.5.3. Gain in dBi

A3.1.5.4. Orientation

A3.1.6. Transmission Line information:

A3.1.6.1. Type (one conductor or two conductor--single coaxial or parallel wires)

A3.1.6.2. Shape (rectangular, circular, square, etc.)

A3.1.6.3. Mobile or static system

A3.1.7. Barriers, interlocks, visual or audible alarms in use with the system.

A3.1.8. Site drawing. Include structures, parking lots, areas occupied by individuals, uncontrolled access areas and the existence of potential hazards such as fuel or ordnance storage areas.

A3.1.9. Topographical information.

A3.1.10. Unit safety operating instructions that include training and emergency procedures.

A3.2. Classified Systems. Contact the IRSO at DSN 875-8607 to schedule an evaluation. Do not discuss classified information over the telephone.