

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

**WHITEMAN AIR FORCE BASE
INSTRUCTION 17-220**



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Cyberspace

SPECTRUM OPERATIONS

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This instruction implements Department of the Air Force Instruction (DAFI) 17-220, *Spectrum Operations*, specifically to establish local responsibilities, address the assessment of purchase for spectrum-dependent systems and the review of memoranda of understandings (MOU) or memoranda of agreements (MOA) that pertain to the use of spectrum-dependent systems. It is consistent with the guidance established with Department of the Air Force Policy Directive 17-2, Cyber Warfare Operations and National Telecommunications and Information Administration (NTIA), Manual of Regulations and Procedures for Federal Radio Frequency Management and the Joint Staff J6 Military Command, Control, Communications, and Computers Executive Board (MC4EB) Frequency Panel. This publication applies to all 509th Bomb Wing and subordinate units assigned, attached to or supported by the 509th Bomb Wing, Whiteman Air Force Base, to include civilian employees and uniformed members of Regular Air Force, the Air Force Reserve, the Air National Guard, those who are contractually obligated to comply with Department of the Air Force publications, and the Civil Air Patrol when conducting missions as the official Air Force Auxiliary within the boundaries of Whiteman Air Force Base. Ensure all records created as a result of prescribed processes in this publication are maintained in accordance with this publication and disposed of in accordance with the Air Force Records Disposition Schedule located in the Air Force Records Information Management System. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using AF Form 847, *Recommendation for Change of Publication*; route the AF Form 847 through the wing publishing office.

1. Overview.

1.1. The electromagnetic spectrum is the range of frequencies of electromagnetic radiation extending from zero to infinity, measured in hertz (cycles per second). The radio frequency spectrum is the group of frequency sub-bands within the allocated electromagnetic spectrum associated with radio wave propagation between 9 kilohertz and 275 gigahertz. This instruction provides an addendum of local responsibilities in the conduct of peacetime electronic spectrum management.

1.2. A complete overview is found in the parent Department of the Air Force Instruction, with expanded roles and responsibilities for each level of assignment.

2. Roles and Responsibilities.

2.1. Host Installation Commander can/will:

2.1.1. Prohibit any RF emitter from operating (cease and desist) when anticipating or resolving interference to mission essential EM equipment.

2.1.2. Review the installation spectrum management program and appointments annually, either in person or through documentation submitted by the Installation Spectrum Manager (ISM). At a minimum, such documentation will ensure compliance with the requirements of the Frequency Assignment Review Program, described in NTIA Manual, Annex F.

2.2. Installation Communications Commander will:

2.2.1. Determine spectrum supportability prior to the obligation of funds for any spectrum-dependent systems procured through local purchase or government purchase card order.

2.2.2. Review memoranda of agreements (MOA) or memoranda of understandings (MOU) that pertain to spectrum-dependent systems with the Plans and Programs Flight (SCX), to ensure transparent support in mutual aid functions.

2.3. User Organization will:

2.3.1. Provide Installation Spectrum Manager (ISM) with an appointment letter signed by the unit commander (or equivalent). At minimum, the letter will include: name/rank, unit/office, email address, and phone number.

2.3.2. Complete training IAW ISM instructions.

2.3.3. Be point of contact (POC) for all spectrum-dependent devices owned/used by the unit.

2.3.3.1. Contact the ISM prior to the obligation of funds for any spectrum-dependent systems/devices.

2.3.3.2. Be knowledgeable on the topic of device requirements.

2.3.3.3. Remain a POC during requests for assistance involving potential spectrum interference.

KEITH J. BUTLER, Colonel, USAF
Commander

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

DAFI17-220, *Spectrum Operations*, 8 June 2021

DAFI17-221, *Spectrum Interference Resolution Program*, 30 Jan 2023

DAFPD17-2, *Cyber Warfare Operations*, 26 October 2020

Prescribed Forms

None

Adopted Forms

AF Form 847, *Recommendation for Change of Publication*

Abbreviations and Acronyms

AFMAN—Air Force Manual

BWI—Bomb Wing Instruction

DAFI—Department of the Air Force Instruction

ISM—Installation Spectrum Manager

MC4EB—Military Command, Control, Communications and Computers Executive Board

MOA—Memoranda of Agreement

MOU—Memoranda of Understanding

NTIA—National Telecommunications and Information Administration

POC—Point of Contact