

**BY ORDER OF THE COMMANDER  
HEADQUARTERS 81ST TRAINING  
WING (AETC)**



**KEESLER AIR FORCE BASE  
Supplement**

**21 SEPTEMBER 2022  
Certified Current, 27 January 2026  
Cyberspace Operations  
SPECTRUM MANAGEMENT**

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(Maj Justin T. Handley)

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DAFI 17-220, 08 Jun 21 is supplemented below.

This publication implements DAFI 17-220, *Spectrum Management* and outlines the responsibilities and rules for management of radio frequencies within the jurisdiction of Keesler Air Force Base. This instruction applies to all units assigned, attached, and associated to 81st Training Wing who use radio frequencies in facilities and the Keesler area. Ensure that all records generated as a result of processes prescribed in this publication adhere to Air Force Instruction 33-322, *Records Management and Information Governance Program*, and are disposed of in accordance with the Air Force Records Disposition Schedule which is located in the Air Force Records Information Management System. Additionally, if the publication generates a report(s), alert readers in a statement and cite all applicable Reports Control Numbers in accordance with AFI 33-324, *The Air Force Information Collections and Reports Management Program*. 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's chain of command.

1.1. Due to increased radio frequency congestion in the Gulf Coast region, commanders must manage assigned radio frequencies to meet key mission needs. Planning and coordination with proper command authority through the Installation Spectrum Manager (ISM) DSN: 597-4144; Commercial (228) 377-4144 is essential for all radio frequency and electromagnetic compatibility matters to provide an environment free from interference.

- 2.2.3. Maintain and identify a point-of-contact to the ISM for unit frequency matters.
- 2.2.7. Provide a point-of-contact to the ISM for unit frequency matters via appointment letter
- 3.1.1. If the system will be deployed outside the United States, DAF policy is that host nation coordination is required in accordance with the DoDI 4650.01, *Management and Use of the Electromagnetic Spectrum*.
  - 3.1.1.1. **(Added)** It is the responsibility of the organization attempting to procure a spectrum-dependent system, including a non-licensed device referenced in [paragraph 4.1](#), to submit a Cyberspace Infrastructure Planning System (CIPS) request through 81 CS/SCOT when purchasing locally or by Government Purchase Card.
  - 3.1.1.2. **(Added)** When a CIPS request is submitted, include as much information as possible about any spectrum-dependent component (e.g. FCC ID number, manufacturer make and model number, frequency range, power level, etc.). Identify the owning/using organization, as well as the name and phone number of a point of contact ISM will provide a frequency request form to be completed by customer.

#### **4. Keesler AFB NON-LICENSED DEVICES.**

- 4.1. Keesler AFB NON Licensed/Annex K Devices. Section 7.8 of the NTIA Manual outlines the purchase and use of Federal and FCC non-licensed devices. Examples of non-licensed devices are wireless routers, wireless or lapel microphones, Family Radio Service (FRS) radios, cell phone boosters and cordless telephones. The following AF caveats and warnings apply:
  - 4.1.1. **(Added)** AF activities should not use non-licensed equipment for critical tactical or strategic command and control applications essential for mission success, protection of human life, or protection of high-value assets, as they offer no protection of spectrum use in support of operational requirements. Non-licensed devices operate on a non-interference basis, which includes accepting any interference from any federal or non-federal authorized radio station, other non-licensed device, or industrial, scientific, and medical equipment. Non-licensed devices must not cause interference to licensed stations.
  - 4.1.2. **(Added)** Upon notification by cognizant spectrum management personnel that the device is causing interference, the operator of the non-licensed device shall cease all radiation from the device until it can be proven that further use will no longer cause interference.
  - 4.1.3. **(Added)** Users will not modify, modernize, enhance, or change the equipment's power, antenna, waveform, or information transfer characteristics in any manner that would cause it to violate the NTIA criteria for non-licensed devices or the device's FCC type certification.
- 4.2. **(Added)** Family Radio Service (FRS). FRS is a FCC unlicensed low powered service that provides coverage up to 2 miles using frequencies within the FRS frequency pool. FRS radios may be used on any of the 14 FRS channels (typically channels 8-14, check owner's manual for FRS channels), which are shared between all FRS users. This reduces confusion between multiple conversations on the same channel. Privacy codes allow the FRS users to limit the transmissions received to those users on the same channel and privacy code (check owner's manual). Note that any FRS user can listen to any ongoing conversation and can legally break into that conversation.
  - 4.2.1. **(Added)** Federal government entities are authorized to purchase and operate radios certified by the FCC in the FRS pursuant to 47 CFR Part 95, Subpart B. Federal users will be accorded the same privileges as non-federal users. FRS users must share each channel and no user

is assured protection from interference caused by another authorized user. FRS users may not purchase and operate FRS radios for planned communications operations that safeguard human life or property. FRS users must comply with the following conditions:

- 4.2.1.1. **(Added)** The provisions of 47 CFR Part 95 and Section 7.5.8 of the NTIA Manual.
  - 4.2.1.2. **(Added)** Federal users and contractors are responsible for all communications using FRS radio equipment. Use must comply with federal, state, and local law.
  - 4.2.1.3. **(Added)** The installation commander may prohibit FRS when interference to mission essential EM equipment is anticipated, or to resolve a suspected interference problem.
  - 4.2.1.4. **(Added)** Federal users and contractors using FRS radios must relinquish channel use for emergency communication messages concerning the immediate safety of life or the immediate protection of property.
  - 4.2.1.5. **(Added)** Use only FCC certified FRS. Any modification to the equipment cancels the FCC certification and voids authority. Illegal FRS equipment is subject to confiscation.
  - 4.2.1.6. **(Added)** Units may use FRS devices to communicate with non-government users during AF supported or sponsored community activities, i.e., scouts, Special Olympics, youth activities/sporting events, civil disasters, funeral details for deceased military veterans, etc. In addition, FRS radios may be used for administrative purposes when communicating in warehouses, commissaries, base exchanges, billeting areas, work crews, etc.
  - 4.2.1.7. **(Added)** Under no circumstance will FRS radios be permitted for use in controlled areas without express written consent of the installation commander and full compliance with all security directives.
- 4.3. **(Added)** Consumer Signal Booster (Cell Repeater). Commercial grade signal boosters are permitted on Keesler AFB, however ISM approval must be granted prior to any contractual agreements with service providers. In addition, a Joint Spectrum Center study must be performed to ensure there will be no RF interference to federal systems. If no harmful interference is predicted in the JSC study, use of a consumer signal booster is permitted at the discretion of the ISM providing the power levels are maintained at/below FCC class B Part 15 requirements and are acquired from wireless providers. The repeater may not be modified from the manufacturer's specifications. Use/location of repeaters must be approved by appropriate cybersecurity personnel. Repeaters do not require certification and are provided no protection from interference other than what may be experienced in the non-federal bands.
- 4.3.1. **(Added)** These devices can only be used if the following conditions are met:
    - 4.3.1.1. **(Added)** The subscriber obtains some form of licensee consent to operate the booster.
    - 4.3.1.2. **(Added)** The booster is registered with its provider.
    - 4.3.1.3. **(Added)** The booster meets the Network Protection Standard.
    - 4.3.1.4. **(Added)** The booster is FCC certified.
    - 4.3.1.5. **(Added)** The booster is operated on a secondary, non-interference basis and must be shut down if it causes harmful interference to a licensed station.
    - 4.3.1.6. **(Added)** Cellular boosters need to be entered into an FCC database. The ISM or the owning organization must obtain the account required to register the equipment as part of

registering the equipment and should be identified in the CIPS approval process so they are aware of the registration requirement.

**5. (Added) Amateur Radio Service.**

5.1. **(Added)** Before a licensed Amateur Radio Service operator transmits from areas under the purview of the Keesler AFB Wing Commander, they must obtain permission in writing from the ISM. At a minimum, they shall inform the ISM of their point of contact information to include work phone number, personal phone number, FCC issued call sign(s) and the make/model of their transceiver(s). Upon receiving permission from the ISM, the Amateur Radio Service operator is responsible for adhering to all FCC, state, and local regulations. The ISM may deny permission to transmit, add additional constraints, or require the operator to cease and desist transmissions for reasons including, but not limited to, operational security or suspected interference to other stations.

**6. (Added) REVIEW OF MEMORANDUM OF AGREEMENT (MOA) AND MEMORANDUM OF UNDERSTANDING (MOU).**

6.1. **(Added)** MOU's and MOA's will be reviewed in accordance with AFI 25-201, *Intra-Service, Intra-Agency, and Inter-Agency Support Agreements Procedures* for outside agency agreements and Technical Order 00-33A-1001 for DoD agencies.

WILLIAM H. HUNTER, Colonel, USAF  
Commander, 81st Training Wing

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

DAFI 17-220, *Spectrum Management*, 8 June 2021

AFI 25-201, *Intra-Service, Intra-Agency, and Inter-Agency Support Agreements Procedures*, 17 October 2013

AFI 33-322, *Records Management and Information Governance Program*, 23 March 2020

AFI 33-324, *The Air Force Information Collections and Reports Management Program*, 22 July 2019

DoDI 3222.03, *DoD Electromagnetic Environmental Effects (E3) Program*, 25 Aug 2014, Incorporating Change 2, 10 Oct 2017

DoDI 4650.01, *Management and Use of the Electromagnetic Spectrum*, 09 January 2009

Technical Order 00-33A-1001

***Prescribed Forms***

No forms prescribed.

***Adopted Forms***

AF Form 847, *Recommendation for Change of Publication*

***Abbreviations and Acronyms***

ISM—Installation Spectrum Manager