



**SPECTRUM INTERFERENCE RESOLUTION  
PROGRAM**

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The OPR for this supplement is 45 CS/SCXF (TSgt John P. Johnston). This supplement implements and extends the guidance of Air Force Instruction (AFI) 10-707, *Spectrum Interference Resolution Program*, 29 April 1994. The AFI is published word-for-word without editorial review. 45th Space Wing (45 SW) supplemental material is indicated in bold face. This supplement describes 45 SW procedures for use in conjunction with the basic AFI. This supplement provides guidance for reporting, identifying, evaluating and controlling electromagnetic interference (EMI) that denies the use of our communications systems, radar, and navigational aids. Upon receipt of this integrated supplement, discard the Air Force basic publication.

1. All initial EMI voice reports will be submitted within one hour of the start of the incident. An EMI written report (**Attachment 4 (Added)**) will be submitted to 45 SW Frequency Management Office (FMO) (45 CS/SCXF) within 20 hours (2 hour point if space system) of the start of the EMI. See paragraph 2.2 for exceptions to reporting.

2. If suspected EMI occurs during a scheduled Eastern Range test or operation, notify the 45 SW/CP at 494-7071 (STU III capable). The 45 SW/CP will notify Range Frequency Control and Scheduling at 853-7034, or 853-2141 (STU-III capable) and the 45SW FMO at 494-9408/5837 or 494-8673 (STE capable). If the EMI is not affecting a scheduled range test or operation, the unit experiencing the suspected EMI will notify the 45 SW FMO during duty hours and the 45 SW/CP during non-duty hours. The 45 SW/CP will immediately notify Frequency Management Office standby personnel. **WARNING: Do not discuss classified information over non-secure means.**

2.1.7. (Added) If possible, make a recording of the interference. If this is not possible, log what is heard, or in the case of radar, what is seen on the scope.

2.1.8. (Added) If the EMI is voice, attempt to contact the interfering station to identify its location.

2.2.2. The interference only affects frequencies assigned on a noninterference basis for training or other purposes. This includes all FCC non-licensed/part 15 devices, which must accept harmful interference (Ref: CFR 47 Part 15).

2.4. Refer to the classification guide for the affected system to determine the classification of the EMI report.

3.1.2. If interference is being received on high frequency (HF) frequencies (3-30 MHz), the Federal Communications Commission (FCC) Monitoring Station listed in para **3.1.2.1. (Added)** is available for providing assistance in direction finding and locating the origin of the interfering signal. If the interference is received in any other frequency band our local Frequency Control and Analysis (FCA) contractor listed in para **3.1.2.2. (Added)**, can provide this assistance. The 45 SW FMO at 494-9408/5837 is the POC for obtaining these services.

3.1.2.1. (Added) FCC Monitoring Station Columbia, MD TEL: (301) 725-2278.

3.1.2.2. (Added) Frequency Control and Analysis TEL: 867-3434/861-8206.

A2.8. (Added) 45 SW FMO:

A2.8.1. (Added) Office of primary responsibility (OPR) for the resolution of EMI on the Eastern Range.

A2.8.2. (Added) Assists in EMI identification and resolution

A2.8.3. (Added) Prepares and sends formal written EMI reports to higher headquarters as required.

A2.9. (Added) 45 SW Command Post:

A2.9.1. (Added) Primary point of contact for 45SW organizations experiencing EMI during scheduled Eastern Range tests or operations and after normal duty hours.

A2.9.2. (Added) Notifies Range Frequency Control and Scheduling and 45 SW FMO when EMI effects scheduled Eastern Range tests or operations.

A2.9.3. (Added) Notifies 45 SW FMO standby personnel of EMI not effecting scheduled Eastern Range tests or operations during non-duty hours.

A2.9.4. (Added) Prepare and submit Operational Reports, as required.

A2.10. (Added) FCA provides direction finding and technical assistance in determining EMI sources.

**Attachment 4 (Added)**

**ELECTROMAGNETIC INTERFERENCE (EMI) REPORT TEMPLATE**

CLASSIFICATION: \_\_\_\_\_

EMI REPORT TEMPLATE

1. Unit Name: \_\_\_\_\_

2. Location: \_\_\_\_\_

(Ground antenna name and location (Latitude/Longitude))

3. DTG EMI Began: \_\_\_\_\_

4. HOW EMI Began: \_\_\_\_\_

(Abrupt, fade in, other)

5. DTG EMI Ended: \_\_\_\_\_

6. HOW EMI Ended: \_\_\_\_\_

(Abrupt, fade in, other)

7. System: \_\_\_\_\_

(Common name of space system or ground equipment, nomenclature, manufacturer and model number)

8. System Function: \_\_\_\_\_

9. Operating Mode of System: \_\_\_\_\_

(Frequency agile, Doppler, search, etc.)

10. Effect of EMI: \_\_\_\_\_

(Reduced range, false targets, denial, intermittent, etc.)

11. Detailed Description of Interference: \_\_\_\_\_  
(Noise, pulse, continuous, intermittent, recurring pattern, etc.)

12. Other Units Experiencing Interference (If known): \_\_\_\_\_

13. Declassify Instructions (If applicable): \_\_\_\_\_

14. Interference Source (If known): \_\_\_\_\_

15. QFIRC (YES/N0): \_\_\_\_\_

16. FREQUENCY (MHz): \_\_\_\_\_

17. Antenna Elevation: \_\_\_\_\_

18. Antenna Azimuth: \_\_\_\_\_

19. POC: \_\_\_\_\_  
(Contact name, phone number and duty hours available for discussion)

20. Remarks: \_\_\_\_\_  
(State whether photographs, recordings, or drawings of EMI are available, if none state why)

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45 SW Vice Commander