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PRESENT (continued) PROCEDURES WHEN EMI INDICATORS ARE

- wske your report regional Wideband Satellite Operations Center (WSOC) and 3. If you are on a Wideband Communications system, contact your
- Space Operations Squadron (450PS) 4. If you are on a Protected Communications System, contact 4
- couvecteg: Select the appropriate prompt and make your report when 5. If 1 thru 4 do not apply, call 1-855-SATCOM1 (1-855-728-2061).
- a. For Wideband issues, select 1
- the SMDC Global Narrowband Watch Officer. For Narrowband issues, select 2 – you will be connected to
- c. For Protected issues, select 3
- d. For Commercial issues, select 4
- e. For Gateway issues, select 5 you will be connected to DISA
- f. For EMI issues, select 6
- Regional Satellite Support Center (RSSC) from the next series For Site issues, select 7 – you will select the appropriate
- 6. Follow all directions provided by the office you contact of prompts
- 601 7. Document all guidance and outcomes in your local operational
- 8. Make any additional reports in accordance with local unit SOP

		1
	UNCLASSIFIED	2
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ALL SUSPECTED EMI MUST BE REPORTED!!!

See report format on page 6 and CJCSM 3320.02C and D for additional information - submit report in accordance with local unit SOP. Classify report IAW system specific security classification guide.

- potential to affect communications in the Extremely High
- Frequency (EHF) portion of the electromagnetic spectrum
- EMI occurring in an operational environment is to be
- considered hostile until a determination can be made as to

- · Adverse terrestrial weather in area of operations with a

the electromagnetic spectrum

- RECOGNIZING EMI First indication of possible EMI often appears as equipment
- malfunctioning, user reports of complete or intermittent loss of communications, or a reduction in operational bandwidth -"network is slow"

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ELECTROMAGNETIC INTERFERENCE (EMI)

Naturally occurring or manmade, unintentional or intentional:

MOST IS UNINTENTIONAL

· EMI occurs when a device's performance is disturbed or interrupted by electromagnetic radiation/conduction

similar systems differently

the source of the problem

- · Reports of increased solar activity with a potential to affect
- communications in the Ultra High Frequency (UHF) portion of

e.g., 1/1/2010 not 012233ZJAN10) AFFECTED SYSTEM** · Interference can vary greatly, change rapidly, and affect

WHEN STARTED. ZULU**

AFFECTED FREQ MHZ***

(Format must be numeric, e.g., 1234.234, not M1234.234)

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JOINT SPECTRUM INTERFERENCE RESOLUTION REPORT

CLASSIFICATION* (TS/S/C/U) (when filled in)

(Format must be a valid date in the spreadsheet "date format",

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GTA 40-01-003

Army Space Training Strategy

Home Station Training

Student Quick Reference Card

Electromagnetic Interference (EMI)

Mitigation Tactics, Techniques, and

Procedures (TTPs) for

Satellite Communications (SATCOM)

U.S. Army Space and Missile Defense Command/

Army Forces Strategic Command

G31 Training, Readiness & Exercise (TREX)

Army Space Training Integration Branch

November 2015 (v1.2)

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Space Training and Integration Branch, Building 3,

350 Vandenberg Street, Peterson AFB, CO 80914.'

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It applicable, practice configuring and receiving timing via non-

Super High Frequency (SHF) (Wideband Communications):

Least jam resistant*Note - Global Positioning System (GPS)

More susceptible to ionospheric disturbances/space weather

Mobile User Objective System (MUOS), UHF Follow On (UFO)

V Ultra High Frequency (UHF) (Narrowband Communications):

Know frequencies equipment is operating on - affects reporting

SAA/GAA contains authorized frequencies and contact

ЗЯАЧЗЯЧ

✓ Non-SATCOM ground terminal operators receive a Global

Prior to employing your SATCOM equipment verify you have your

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Review the JSIR Reporting Format - be familiar with EMI reporting

Access Authority (GAA) - provided by 56 / local Spectrum Manager

*Note - Global Positioning System (GPS) operates in UHF range

Wideband Global SATCOM (WGS), Defense Satellite

automated methods (e.g. other than the "boot" file)

More susceptible to terrestrial weather

Frequency Range 30 GHZ to 300 GHZ

Frequency range 300 MHZ to 3 GHZ

information for reporting communications issues

Satellite Access Authority (SAA), not just a "cut sheet"

Advanced EHF (AEHF), MILSTAR

Most jam resistant

Communications System (DSCS)

operates in UHF range

Frequency Range 3 GHZ to 30 GHZ

1

brocedures

blocedures

CHANNEL***

LOCATION OF AFFECTED RECEIVER**

COUNTRY OF AFFECTED RECEIVER

DESCRIPTION OF EMI EVENT

(Include what it sounds like, actions taken so far, suspected cause, and other comments)

Preferred method of submission is online via JSIR-Online (JSIR-O),

CLASSIFICATION* (TS/S/C/U) (when filled in)

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Center (NOC) for the owner/operator or vendor and make your report

6/local spectrum manager to contact the local regional theater trequency

2. If you are on a commercial satellite, contact the Network Operations

1. If you suspect this is an issue with your downlink, work with your S-

*Note: The JSIR preferred reporting method is via online on SIPR using

your unit SOP, must immediately report via a Joint Spectrum Interterence

It the previous steps do not resolve issue, you, or the section designated in

Resolution (JSIR) Report in accordance with the following guidelines

Ensure no operator errors are causing problems with communications

Weather Officer (SWO) there is no increase in space and/or terrestrial

ste no ground equipment issues or nonexistent/invalid trequencies in use

Follow troubleshooting procedures for your specific equipment; verify there

CONTINUE TO FOLLOW THE PARAMETERS SET IN YOUR SATELLITE

PROCEDURES WHEN EMI INDICATORS ARE PRESENT

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weather impacting your region and there are no spacecraft outages.

It possible, verity with the S6, Space Support Element (SSE), or Space

• It you have not previously contacted your higher (TOC, HQ), ensure you

It you are still transmitting, continue to transmit and do not change

make notifications as required by your unit SOP

frequency, power, or azimuth until directed to do so

.AAD 10 (AA2) NOITAZIAOHTUA S2300A

* Note: Contact numbers for all sites listed are in the SAA (GAA)

MHZ: megahertz

manager and make your report

(OAISL) aniinO-AISL ani

6

3

MHZ: megahertz

GHZ: gigahertz

VICTIM POC NAME

VICTIM UNIT

**Required item

Þ

COCOM/SERVICE/AGENCY

**At least one of these items is required

*Refer to system specific security classification guide

available on Intelink on SIPRnet.