

SATCOM GUIDELINES FOR USE IN THE NORTH ATLANTIC REGION

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1. SYSTEM OPERATION - MANAGING SATCOM CALLS

1.1 SATCOM Logon/Connection

1.1.1 The Aircraft Earth Station (AES) must be logged on to a Ground Earth Station (GES) before any attempt is made to establish a call to a Radio Station.

1.2 Establishing and Terminating an SATCOM Call

1.2.1 To establish a SATCOM call to a Radio Station, pilots can use the 6 digits INMARSAT short code or the PSTN number using Iridium for the Radio Station.

1.2.2 Pilots must be aware that SATCOM calls may receive a busy tone after the dialing sequence is complete since the answering scheme is based on Public Telephone Switch Network (PSTN) and the call will be received through an individual phone or Voice Communication Switching System (VCSS) on a single or dual line.

1.2.3 After the dialogue between pilots and radio operators is complete either may terminate the connection by hanging up the phone or using other means.

2. RESPONSIBILITIES

2.1 Aircraft Operator Responsibilities

2.1.1 Advisory information distributed within the flight operations department of an Operator will ensure that all personnel concerned are aware of SATCOM concepts and any necessary programs for the use of SATCOM WPR.

2.1.2 Operators should assess operational requirements, establish policy and procedures, and incorporate them in appropriate company documents.

2.1.3 When aware of any SATCOM Systems failure, Operators should advise concerned crews to use HF voice communications only.

2.1.4 Company Operations Manuals and other documentation for SATCOM should include:

- a) crew procedures;
- b) pilot responsibility for establishing and maintaining HF voice communications (SELCAL) with the appropriate OCA/FIR's;
- c) INMARSAT 6 digits short code or PSTN number for the Radio Stations
- d) Reiterate that HF equipment requirements remain in effect

3. PROCEDURES

3.1 Flight Crew Procedures - General

3.1.1 The integrity of the ATC service remains wholly dependent on establishing and maintaining HF or VHF voice communications. To assist in the smooth implementation of SATCOM WPR throughout the NAT Region, the pilot procedures below reflect the end-state for SATCOM WPR. The application of the following pilot and associated AERadio procedures will permit a seamless expansion of SATCOM WPR without numerous changes to the procedures themselves.

3.2 Flight Crew Procedures – GES Logon

3.2.1 The AES must be logged to a GES before any call attempt be made.

Regardless of the SATCOM Service Provider used, the 6 digits INMARSAT short code or PSTN number for Iridium follows:

Station	INMARSAT Short code	PSTN number
• Bodo Radio is	425702	+ 47 - 75 52 12 83
• Gander Radio is	431613	+ 1 - 709-651-5328
• Iceland Radio is	425105	+ 354 - 568 4600
• New York Radio is	436623	+ 1 - 631-244-2492
• Santa Maria Radio is	426305	+ 351 - 296 886 655
• Shanwick Radio is	425002	+ 353 - 61 368 678

3.2.2 The number of call attempts made to establish contact with the radio station will be a pilot responsibility, however, if contact cannot be established within 5 minutes of waypoint transition, pilots should revert to the assigned HF frequencies for position report delivery.

3.3 Flight Crew Procedures – AERadio Communications

3.3.1 Prior to entering an Oceanic Control Area, the pilot shall contact the AERadio station serving that OCA/CTA on the appropriate frequencies and check the Selcal.

3.3.2 Pilots should use standard ICAO procedures and phraseology, as defined in Annex 10, Volume II, Chapter 5 and Doc. 8400 in any SATCOM voice communication.

3.3.3 When an onboard systems failure prevents SATCOM WPR:

- do not inform AERadio operator that SATCOM is unavailable;
- transmit all subsequent position reports via HF voice;
- inform Company Operations Department in accordance with established problem reporting procedures.

3.3.4 Pilots should not ask AERadio operators questions regarding the status of the SATCOM connection.

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