INTERNATIONAL CIVIL AVIATION ORGANIZATION

SECOND MEETING OF THE APIRG COMMUNICATIONS, NAVIGATION AND SURVEILLANCE SUB-GROUP (CNS/SG/2)

(Dakar, 22-25 May 2007)

Agenda Item 5:   Aeronautical mobile service (AMS)

Review of the implementation and performance of the Aeronautical Mobile Service in the AFI Region, identification of deficiencies and remedial action for their elimination

(Presented by the Secretariat)

Summary
This paper reviews progress in the implementation of the aeronautical mobile service (AMS) and identifies deficiencies that are still to be resolved.
Action by the meeting is at paragraph 3.
Reference: -APIRG/15 Report   - AFI/7 RAN Report, Doc. 9702

1.   **Introduction**

1.1   The First Meeting of the CNS Sub-group (CNS/SG/1, Dakar, 7-8 April 2005) noted significant efforts by States to implement extended VHF coverage within the AFI Region. However, a number of deficiencies still affect the aeronautical mobile service as documented herein.

2   **Discussion**

VHF communications

2.1   In accordance with AFI/7 Rec. 5/12, VHF coverage should be provided along all ATS routes, and where necessary, remote VHF stations should be used.

2.2   CNS/SG/1 particularly noted significant achievements in the following FIRs: Algiers (Annaba, El Oued, El Bayadh, In Amenas, Bechar, Constantine, Ghardaia, In Salah, Hassi Messaoud, Tindouf and Djanet), Khartoum (Damazin, Dongola, El Fasher, El Obeid, Juba, Khartoum, Malakal, Nyala , Port Sudan and Wau), Kinshasa (Kinshasa, Kisangani and Lubumbashi), Accra (Tamale, Niamtougou, and Sao Tome), and Lusaka (Chipata, Kasana, Lusaka, Mongu and Ndola).

2.3   CNS/SG also identified Luanda and Tripoli FIRs as areas where VHF coverage was critically needed.

HF communications

2.4   Considering the impossibility to ensure total VHF coverage in some areas such as oceanic areas and remote continental areas, there is consequently need for retaining reliable HF voice communications facilities.

Identification of deficiencies

2.5   The Secretariat has updated the lists of deficiencies in the AMS field as shown in **Appendix** based on reports on missions to States. The CNS/SG is invited to update this Appendix as necessary based on the information to be provided the meeting.

3.   Action by the meeting.

3.1   The CNS/SG is invited to:

a)   note the information provided herein;
b)   provide updates on the VHF extension projects;
c)   note the need to retain reliable HF communications facilities; and
d)   review and update the list of deficiencies at Appendix to this paper.

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APPENDIX

StateName	Requirements	Facilities or Services	Description of Deficiency	Date first reported	Comments on Deficiency	Description of Corrective action	Executing Body	Target date for implementation	Priority
1. Angola									
	AMS AFI/7 Rec. 9/12	Luanda ACC	Inadequate VHF coverage of busy ATS routes	1998	Implement remote VHF stations	5 VHF stations to be installed by the end of 2001	ENANA	2001	U
2. Dem. Rep. of Congo									
	AMS AFI/7 Rec. 9/12	Kinshasa FIR	HF poor quality. Selcal not available	1998		Improve installations	DR Congo		U
	AMS AFI/7 Rec. 9/12	Kinshasa FIR	Inadequate VHF coverage of busy ATS routes	1998		Extend VHF to all upper routes. Extended VHF coverage planned.	DR Congo	In progress	U
3. Malawi									
	AMS AFI/7 Rec. 9/12	FIR Lilongwe	VHF coverage incomplete	2001	Install additional VHF relay stations	Extend VHF coverage	Malawi		U
4. Mozambique									
	AMS AFI/7 Rec. 9/12	Beira FIR	VHF coverage incomplete	2002	Install additional VHF relay stations	Extend VHF coverage	Mozambique		U
5. Nigeria									
	AMS AFI/7 Rec. 9/12	Lagos TWR	No back-up radio	1998		To implement back-up radio	Nigeria		U
	AMS AFI/7 Rec. 9/12	Kano ACC	VHF coverage not adequate	1998		VHF extension in progress	Nigeria		U
6. Somalia									
	AMS AFI/7 Rec. 9/12	Mogadishu ACC	Lack of VHF coverage of busy ATS routes	1998		Install VHF relays	Somalia		U
7. Sudan									
	AMS AFI/7 Rec. 9/12	Khartoum FIR	Inadequate VHF coverage of busy ATS routes	1998		VSAT remote VHF stations envisaged	Sudan		U