



INTERNATIONAL CIVIL AVIATION ORGANIZATION
Western and Central Africa Office
AFI Planning and Implementation Regional Group (APIRG)
Communications, Navigation and Surveillance Sub-Group
Fourth Meeting (CNS/SG/4)

(Dakar, Senegal, 25-29 July 2011)

(Presented by the Secretariat)

Agenda Item 8: Aeronautical Radio Frequency Spectrum issues

Review of the report of the Second meeting of the AFI Frequency Management Group

(Presented by the Secretariat)

SUMMARY
This working paper presents the report on the second meeting of the AFI Frequency Management Group (AFI/FMG/2) and outlines the future tasks to be undertaken
Action by the meeting is at paragraph 3.
References : Reports on APIRG/16 & 17 Meetings Report on the first meeting of the AFI Frequency Management Group Report on the second meeting of the AFI Frequency Management Group Report on the second meeting of the AFI Frequency Management Workshop ICAO Annex 10 —Volume V –Aeronautical Frequency Spectrum Utilization ICAO Doc 9718 — Handbook on radio frequency spectrum requirements FOR CIVIL AVIATION <i>Note: AFI References can be downloaded from www.icao.int/wacaf.</i>
Related ICAO Strategic Objective A: <i>Safety</i> and C: <i>Environmental Protection and Sustainable Development of Air Transport</i> .

1. INTRODUCTION

1.1 The Second Meeting of the AFI Frequency Management Group (**AFI/FMG/2**) was held in the Conference Room of Headquarters of the Agence pour la Sécurité de la Navigation Aérienne en Afrique et à Madagascar (**ASECNA**) in Dakar, Senegal, from 18 to 19 April 2011.

The meeting was attended by forty two (42) participants from thirteen (13) Contracting States, two (02) Regional Air Navigation Service Providers (ASECNA and Roberts FIR) acting for twenty (20) AFI Contracting States two (02) International Organizations (ITU and African Broadcasting Union-ABU) and the Telecommunication Regulation Authority of Senegal. The meeting elected **Mr. Patrick RANDRIANASOLO**, Aeronautical Telecommunications Manager, ASECNA Headquarters as Chairman and Rapporteur of the Group.

2. DISCUSSION

2.1 The Second Meeting of the AFI Frequency Management Group preceded a Regional Airnavigation Service Providers Seminar on the ***Protection and new Stakes on the Aeronautical Frequency Spectrum*** which took place from 20 to 22 April 2011.

The meeting considered the Terms of Reference of AFI/FMG as defined by APIRG 17 Meeting (APIRG/17 Report § 3.3.48 refers) and the relevant activities of ICAO Aeronautical Communication Panel Working Group F.

The meeting assessed the status of implementation the conclusions and decisions of the first meeting of AFI Frequency Management Group (AFI/FMG/1-September 2009) and reviewed the outcomes of APIRG/17 meeting conclusions and decisions pertaining to Frequency Management

Moreover, the meeting examined the current activities undertaken by ICAO for the preparation of ITU World Radiocommunication Conference on 2012 (WRC 12) and mainly:

- The activities carried out by ICAO ACP/WG F.
- The outcome of the ATU preparatory meeting held in February 2011 in Abuja in the frame of the development of strategies for efficient coordination with National Telecommunication Regulators Authorities
- The outcomes of the CPM second meeting in the view of the development of a common position of AFI Civil Aviation Authorities to support ICAO position for WRC 12.

2.2 The meeting also endorsed the recommendations of the Regional Workshop on Frequency Management and development of training aid held in Nairobi on December 2010 and drafted 10 Conclusions and 01 decision as summarized in **Appendix A-** the entire report of the report on the second meeting of the AFI Frequency Management Group can be downloaded from WACAF and ESAF Websites.

2.3 Based on this, the meeting accordingly updated the Future work program of the Group and tasked States/Organization with specifics actions to be undertaken:

- Monitoring and report to APIRG the status of available capacity in the various aviation bands;

- Review of ICAO SARPs and Guidance Material;
- Coordinate activities in aeronautical frequency planning and protection of the aeronautical spectrum;
- Maintenance of AFI COM List by providing the relevant data;
- National and regional initiative to support the position of ICAO for WRC 12;

The Term of Reference Composition and Future Workprogramme with action Plan of the AFI Frequency Management Group are presented in **Appendix B**

3. ACTION TO BE TAKEN BY THE MEETING

The meeting is invited to:

- a) - Take note of the above information.
- b) - Comment and amend if necessary Appendixes **A, B & C**
- c) – Agree on timelines towards implementation of the action plan derived from the second meeting of the AFI Frequency Management Group.

APPENDIX A

Summary of Conclusions and Decisions of the first Meeting of the AFI AMHS Implementation Task Force

Number	Title
Agenda Item 1	Election of the Rapporteur of the Frequency Management Group
Decision 2/01	Election of the Rapporteur That the <i>Agence pour la Sécurité de la Navigation Aérienne en Afrique et à Madagascar</i> (ASECNA) be assigned the role of Rapporteur of the Africa-Indian Ocean (AFI) Planning and Implementation Regional Group (APIRG) Frequency Management Group (AFI/FMG).
Conclusion 2/02	Terms of reference of the Group Rapporteur That, considering the critical role of the Group Rapporteur in regional coordination activities: <ul style="list-style-type: none"> a) the Secretariat develop the terms of reference for the Rapporteur of the AFI Frequency Management Group for consideration by the next meeting of the APIRG Communications, Navigation and Surveillance Sub-group (CNS/SG); and. b) the Administration/Organization discharging the function of AFI FMG Rapporteur should secure the necessary resources to ensure that the designated Officer is available to participate in all activities of relevance to his/her mandate.
Agenda Item 2	Follow up of the Conclusions and Decisions of the First Meeting of AFI Frequency Management Group (AFI/FMG/1) (September 2009)
Conclusion 2/03	Regulatory provisions for the use of VSAT technology in the AFI Region That, in accordance with ITU WRC/07 Recommendation 724 (WRC-07) on the use by civil aviation of frequency allocations on a primary basis to the fixed-satellite service, the AFI Frequency Management Group pursue its follow up action aimed to: <ul style="list-style-type: none"> a) protect the use of Fixed Satellite Service (FSS) for the provision of aeronautical telecommunications services, including aeronautical fixed service, aeronautical mobile service, aeronautical surveillance and aeronautical radionavigation service, in the interest of public safety; and b) establish corresponding national regulatory provisions.
Agenda Item 3	Follow up on APIRG/17 Conclusions and Decisions pertaining to Frequency Management issues
Conclusion 2/04	Coordination of aeronautical telecommunications issues between appropriate authorities at national level That the Secretariat should coordinate the development of a model of a national coordination framework to facilitate efficient dialogue between appropriate authorities and resolution of issues related to the provision, the optimum operation and protection of aeronautical telecommunications spectrum, for consideration by the next meeting of the AFI Frequency Management Group.
Conclusion 2/05	National Policies and Regulations pertaining to aeronautical telecommunications That the ICAO Secretariat should conduct a survey on AFI States policies and regulations pertaining to

Number	Title
	aeronautical telecommunications, in order to determine the areas in which assistance by the AFI Frequency Management Group is required.
Conclusion 2/06	Implementation of AFI Air Navigation Plan provisions That AFI States should implement all relevant provisions contained in the Air Navigation Plan (ICAO Doc 7474) concerning the planning, coordination, management and protection of the aeronautical radiofrequency spectrum, and related problem reporting procedures, in accordance with ICAO and ITU policies.
Conclusion 2/07	Implementation of HF propagation forecast software That, in accordance with SP AFI RAN/08 Recommendation 6/20 (Improvement of air-ground high frequency (HF) communications in the AFI Region through use of ionospheric propagation forecasts): <ul style="list-style-type: none"> a) ICAO should ensure that States/Air Navigation Service providers implement a harmonized software tool(s) to establish HF propagation forecasts; and b) States/Air Navigation Service providers which have acquired HF propagation forecast software tools, should coordinate their trials with all States within the same frequencies allotment areas defined in AFI FASID Chart CNS 2.
Conclusion 2/08	Required Communication Performance (RCP) Training requirements That, in accordance with APIRG Conclusion 17/26 (Implementation of RCP Concept), ICAO organize as a matter of urgency regional workshops/seminars on the RCP concept as stated in the Manual on Required Communication Performance (Doc 9869) in order to facilitate its implementation by AFI States.
Agenda Item 4	Report on the Regional Workshop on Frequency Management and Development of Training Aid (December 2010)
Conclusion 2/09	Development of Frequency Assignment Planning Tool That: <ul style="list-style-type: none"> a) States implement the recommendations formulated by the 2010 Regional Workshop on Frequency Management and Development of Training Aid; and b) ICAO should finalize/maintain the Frequency Assignment Planning Software Tool, and ensure that all relevant CNS systems are covered to the extent feasible.
Conclusion 2/10	Updating of COM Lists That States: <ul style="list-style-type: none"> a) Review and update their COM Lists 1, 2 and 3, and send updated lists to their accredited ICAO Regional Offices no later than 30 September 2011; b) Provide their national Radio Regulators with updated lists of communications and navigation systems; and c) Pursue the evaluation of the software tool, and submit to ICAO any queries, comments and suggestions no later than 30 September 2011.
Conclusion 2/11	Need for pre-operational trials of frequency assignments That, taking into consideration potential sources of interference not included in the ICAO Frequency Assignment database, States should carry out pre-operational trials of frequency assignment projects cleared using the ICAO Software.

APPENDIX B1

TERMS OF REFERENCE COMPOSITION AND WORK PROGRAMME OF THE AFI FREQUENCY MANAGEMENT GROUP (AFI/FMG)

Terms of Reference:

The FMG works within the terms of reference of the APIRG, on the matters related to the aviation radio frequency spectrum that are included in the following task list in co-ordination with other relevant international organizations.

Composition: Angola, Algeria , Benin, Burkina Faso, Burundi , Botswana, Democratic Republic of Congo, Cameroun, Cape Verde, Comoros, Congo, Cote d'Ivoire, Djibouti, Egypt, Eritrea , Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea Bissau, Guinée Equatoriale, Kenya, Lesotho, Liberia, Libya, Mali, Mauritania, Morocco, Niger, Nigeria, Seychelles, South Africa, Tunisia, RCA Rwanda, Sao Tome et Principe, Senegal, Sierra Leone, Somalia, Sudan, Swaziland , Tanzania, Tchad, Togo, Uganda, Zambia, Zimbabwe, France, Britain, Spain

Work Programme:

	Ref.	Title/Brief description	Deliverables	Action by	Target Date
1	GPI 23	Aviation Spectrum requirements	Monitor and report to APIRG the status of available capacity in the various aviation bands	FMG	On-going
2	GPI 23	Frequency planning	Ensure the effective operation of the coordination process for the necessary agreement to make new frequency assignments	FMG	On-going
3	GPI 23	Coordinate with other agencies to protect aviation spectrum	Coordinate activities for the conduct of the 'block planning' process to provide for new frequency requirements which can only be satisfied by the relocation of existing assignments	FMG	On-going
4	GPI 23	Table COM 3 maintenance	Maintain a parallel draft TABLE COM 3 until merging with the ICAO table is completed with refinement of COM3 Tables at the next stage	Study Group, ICAO	On-going
5	GPI 23	Support for ICAO Position at WRC	Ensure AFI States support ICAO at ITU meetings	FMG	On-going

	Ref.	Title/Brief description	Deliverables	Action by	Target Date
		meeting			

APPENDIX B2**Action Plan driven from the outcomes of AFI/FMG 2nd meeting**

	Action	By	deadline	Status of implementation	Remarks
Concl. 2/02	Development the Terms of Reference for the Rapporteur of the AFI Frequency Management Group	Secretariat	End of June 2011		
Concl. 2/02	Allocation of necessary resources to ensure that the designated Officer is available to participate in all activities of relevance to his/her mandate	AECNA	Continuous		
Concl. 2/03	Establishment national regulatory provisions to protect the use of Fixed Satellite Service (FSS) for the provision of aeronautical telecommunications services	States/ICAO	12/011		
Concl. 2/04	Development of a model of a national coordination framework to facilitate efficient dialogue between appropriate authorities and resolution of issues related to the provision, the optimum operation and protection of aeronautical telecommunications spectrum,	States/ICAO	12/011		
Concl. 2/05	Survey on AFI States policies and regulations pertaining to aeronautical telecommunications, and determination of areas of required assistance by AFI /FMG	ICAO	12/011		
Concl. 2/07	Coordination of trials on HF Propagation forecast with all States within the same frequencies allotment areas defined in AFI FASID Chart CNS 2.	States/ANSPs	Continuous		
Concl. 2/08	Organization of regional workshops/seminars on the RCP concept (Doc 9869) as called for by APIRG Conclusion 17/26 to facilitate its implementation by AFI	ICAO	Year 2012		
Concl. 2/09 & 10	Review and update AFI database COM Lists	States/ICAO	12/011		
Concl. 2/09	Finalization and maintenance of the Frequency Assignment Planning Software	States/ICAO	Year 2012		
Concl. 2/12	Coordination between States and stakeholders for the development of regional strategies,	States/ICAO	12/11		
Concl. 2/14	Development of specifications and criteria for software integrity validation	Rapporteur Cameroon, Ghana, Morocco, Rwanda and South Africa	Year 2012		