INTERNATIONAL CIVIL AVIATION ORGANIZATION

**AFI PLANNING AND IMPLEMENTATION REGIONAL GROUP
EIGHTEENTH MEETING (APIRG/18)
Kampala, Uganda (27 – 30 March 2012)**

Agenda Item 4.1:   **REVIEW AND UPDATE OF THE LIST OF DEFICIENCIES IN THE AIR NAVIGATION FIELDS - AIM**

(Presented by the Secretariat)

SUMMARY
This working paper reflects the outcome of the ATM/AIM/SAR SG/12 in its review of the air navigation deficiencies in the field of **AIM**. It highlights the challenge of low reporting of deficiencies and proposes an approach to encourage reporting of deficiencies.
REFERENCE(S): APIRG Handbook, ATM/AIM/SAR SG/12 Report
Related ICAO Strategic Objective(s): A & C

1.   INTRODUCTION

1.1   The definition of air navigation "deficiency" as approved by the ICAO Council is as follows:

> "*a deficiency is a situation where a facility, service or procedure does not comply with a regional air navigation plan approved by the Council, or with related ICAO Standards and Recommended Practices, and which situation has a negative impact on the safety, regularity and/or efficiency of international civil aviation*"

2.   DISCUSSION

2.1   The ATM/AIM/SAR Sub-Group recognized that the important task of reporting of air navigation deficiencies is best facilitated by active participation by States (and their ANSPs), users and other stakeholders including professional organizations. Consequently, and in view of the situation in the AFI Region, it was important for the Sub-Group to address the matter of effective reporting of air navigation deficiencies. The current list of AIM deficiency is at **Appendix A** to this Working Paper as noted by the Sub-Group.

3.   ACTION BY THE MEETING

3.1   In order to encourage reporting by all concerned parties and to enable follow up, particularly by the Regional Offices, the meeting is invited to:

a)   note the information provided in this working paper at **Appendix A**; and

b)   agree on the same approach of minimum reporting as presented in WP23 with minimum reporting areas for AIM as per **Appendix B**.

-END -

AIM Deficiencies

State Name	*Requirements*	*Facilities/ Services*	*Description of Deficiency*	*Date first reported*	*Comments on Deficiency*	*Description of corrective action*	*Executing Body*	*Target date for implementation*	*Priority*
Algeria	*ANNEX 15:* *Para. 3.2*					*QMS Certified*			
Angola	*ANNEX 15:* *Para. 3.2*		*Implementation of a Quality System*			*Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.*			U
Benin	*ANNEX 15:* *Para. 3.2*		*Implementation of a Quality System*		Work in progress by ASECNA	*Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.*			U
Botswana	*ANNEX 15:* *Para. 3.2*		*Implementation of a Quality System*		Work in progress	*Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.*			U
Burkina Faso	*ANNEX 15:* *Para. 3.2*		*Implementation of a Quality System*		Work in progress by ASECNA	*Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.*			U
Burundi	*ANNEX 15:* *Para. 3.2*		*Implementation of a Quality System*			*Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.*			U
Cameroon	*ANNEX 15:* *Para. 3.2*		*Implementation of a Quality System*		Work in progress	*Need to introduce a properly organized quality system in*			U

State Name	Requirements	Facilities/ Services	Description of Deficiency	Date first reported	Comments on Deficiency	Description of corrective action	Executing Body	Target date for implementation	Priority
					by ASECNA	*conformity with ISO 9000 series of quality assurance standards.*			
Cape Verde	**ANNEX 15:** Para. 3.2		*Implementation of a Quality System*			*Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.*			U
Central African Republic	**ANNEX 15:** Para. 3.2		*Implementation of a Quality System*		Work in progress by ASECNA	*Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.*			U
Chad	**ANNEX 15:** Para. 3.2		*Implementation of a Quality System*		Work in progress by ASECNA	*Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.*			U
Comoros	**ANNEX 15:** Para. 3.2		*Implementation of a Quality System*		Work in progress by ASECNA	*Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.*			U
Congo	**ANNEX 15:** Para. 3.2		*Implementation of a Quality System*		Work in progress by ASECNA	*Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.*			U
Côte d'Ivoire	**ANNEX 15:** Para. 3.2		*Implementation of a Quality System*		Work in progress by ASECNA	*Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards. standards.*			U
Dem. Rep. of Congo	Annex 4, 13.2 and AFI/7, Rec.12/31 **ANNEX 15:**		Aerodrome Charts outdated *Implementation of a*	1990	Non-updated charts affects safety	Publish new charts. IAC and VAC charts published. *Need to introduce a properly organized*	Congo (DRC)	31/12/07	U U

State Name	Requirements	Facilities/ Services	Description of Deficiency	Date first reported	Comments on Deficiency	Description of corrective action	Executing Body	Target date for implementation	Priority
	Para. 3.2		*Quality System*			*quality system in conformity with ISO 9000 series of quality assurance standards. standards.*			
Djibouti	*ANNEX 15: Para. 3.2*		*Implementation of a Quality System*			*Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.*			U
Egypt	*ANNEX 15: Para. 3.2*					*QMS Certified*			
Equatorial Guinea	*ANNEX 15: Para. 3.2*		*Implementation of a Quality System*		Work in progress by ASECNA	*Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.*			U
Eritrea	*ANNEX 15: Para. 3.2*		*Implementation of a Quality System*			*Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.*			U
Ethiopia	*ANNEX 15: Para. 3.2*		*Implementation of a Quality System*			*Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.*			U
France (Réunion)	*ANNEX 15: Para. 3.2*				*QMS Certified*				
Gabon	*ANNEX 15: Para. 3.2*		*Implementation of a Quality System*		Work in progress by ASECNA	*Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.*			U

State Name	Requirements	Facilities/ Services	Description of Deficiency	Date first reported	Comments on Deficiency	Description of corrective action	Executing Body	Target date for implementation	Priority
Ghana	ANNEX 15: Para. 3.2		Implementation of a Quality System		Work in progress	Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Gambia	ANNEX 15: Para. 3.2		Implementation of a Quality System		Work in progress	Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Guinea	ANNEX 15: Para. 3.2		Implementation of a Quality System			Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Guinea Bissau	ANNEX 15: Para. 3.2		Implementation of a Quality System			Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards..			U
Kenya	ANNEX 15: Para. 3.2		Implementation of a Quality System		Work in progress	Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Lesotho	ANNEX 15: Para. 3.2		Implementation of a Quality System			Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Liberia	ANNEX 15: Para. 3.2		Implementation of a Quality System			Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Libya	ANNEX 15: Para. 3.2		Implementation of a Quality System			Need to introduce a properly organized quality system in conformity with ISO 9000			U

State Name	Requirements	Facilities/ Services	Description of Deficiency	Date first reported	Comments on Deficiency	Description of corrective action	Executing Body	Target date for implementation	Priority
						series of quality assurance standards.			
Madagascar	ANNEX 15: Para. 3.2		Implementation of a Quality System		Work in progress by ASECNA	Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Malawi	ANNEX 15: Para. 3.2		Implementation of a Quality System			Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Mali	ANNEX 15: Para. 3.2		Implementation of a Quality System		Work in progress by ASECNA	Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Mauritania	ANNEX 15: Para. 3.2		Implementation of a Quality System		Work in progress by ASECNA	Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Mauritius	ANNEX 15: Para. 3.2		Implementation of a Quality System		Work in progress by ASECNA	Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Morocco	ANNEX 15: Para. 3.2				QMS Certified				
Mozambique	ANNEX 15: Para. 3.2		Implementation of a Quality System			Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Namibia	ANNEX 15: Para. 3.2		Implementation of a Quality System		Work in progress by	Need to introduce a properly organized quality system in conformity with ISO 9000			U

State Name	Requirements	Facilities/ Services	Description of Deficiency	Date first reported	Comments on Deficiency	Description of corrective action	Executing Body	Target date for implementation	Priority
					ASECNA	series of quality assurance standards.			
Niger	ANNEX 15: Para. 3.2		Implementation of a Quality System		Work in progress by ASECNA	Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Nigeria	ANNEX 15: Para. 3.2		Implementation of a Quality System		Work in progress	Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Rwanda	ANNEX 15: Para. 3.2		Implementation of a Quality System			Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Sao Tome & Principe	ANNEX 15: Para. 3.2		Implementation of a Quality System			Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Senegal	ANNEX 15: Para. 3.2		Implementation of a Quality System		Work in progress by ASECNA	Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Seychelles	ANNEX 15: Para. 3.2		Implementation of a Quality System			Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Sierra Leone	ANNEX 15: Para. 3.2		Implementation of a Quality System			Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Somalia	Annex 4, 3.2, 11.2 and 13.2, AFI/7 Rec.12/31		Non-availability of ICAO Aerodrome	1990	Lack of these charts affects	Publish the three Charts as required	Somalia	31/12/07	U

State Name	Requirements	Facilities/ Services	Description of Deficiency	Date first reported	Comments on Deficiency	Description of corrective action	Executing Body	Target date for implementation	Priority
			Chart, ICAO Aerodrome Obstacle Chart type A and ICAO Instrument Approach Chart for Hargeisa, Kismayu, Mogadishu.		safety.				
	Annex 15, 3.6.4 *ANNEX 15: Para. 3.2*		Accuracy of coordinates to be established in accordance with Annexes 11 and 14. *Implementation of a Quality System*	01/01/98	Delay in introduction of GNSS	Implementation of WGS-84 coordinates *Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.*	Somalia	31/12/07	U
South Africa	*ANNEX 15: Para. 3.2*					*QMS Certified*			
Spain (Canary Is.)	*ANNEX 15: Para. 3.2*					*QMS Certified*			
Sudan	*ANNEX 15: Para. 3.2*		*Implementation of a Quality System*			*Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.*			U
Swaziland	*ANNEX 15: Para. 3.2*		*Implementation of a Quality System*			*Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.*			U
Tanzania	*ANNEX 15: Para. 3.2*					*QMS Certified*			
Togo	*ANNEX 15: Para. 3.2*		*Implementation of a Quality System*		Work in progress by	*Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality*			U

State Name	Requirements	Facilities/ Services	Description of Deficiency	Date first reported	Comments on Deficiency	Description of corrective action	Executing Body	Target date for implementation	Priority
					ASECNA	assurance standards.			
Tunisia	ANNEX 15: Para. 3.2					QMS Certified			
Uganda	ANNEX 15: Para. 3.2		Implementation of a Quality System			Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Zambia	ANNEX 15: Para. 3.2		Implementation of a Quality System			Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U
Zimbabwe	ANNEX 15: Para. 3.2		Implementation of a Quality System			Need to introduce a properly organized quality system in conformity with ISO 9000 series of quality assurance standards.			U

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Item No	ICAO Reference Document & GPIs	Description	Date first reported	Remarks/ Impact of non-implementation	Action by States	Action taken/planned by State (including timelines/target dates)	Identified implementation impediment and action thereon	Status
		Deficiencies				**Corrective Action**		

Item No	ICAO Reference Document & GPIs	Description	Date first reported	Remarks/ Impact of non-implementation	Action by States	Action taken/planned by State (including timelines/target dates)	Identified implementation impediment and action thereon	Status
AERONAUTICAL INFORMATION MANAGEMENT (AIM)								
	[Annex 15 Para 3.7.1]	**Non implementation of WGS-84**		Unable to implement basic PBN requirements				
2.	[Annex 15 Para 4.1- 4.2]	**Non standard format of AIP**		Difficulty to locate essential safety information relevant to conditions of services				
3.	[Annex 15 Para 5]	**Lack of regular and effective updating of AIP**		Lack of updated information can lead to safety of air navigation being compromised				
4.	[Annex 15, Para 3.1.1.2, 3.1.4, 3.1.6, 3.2.1 & 4.1]	**AIP containing conflicting/misleading information within the different sections**		Can cause confusion as to the accuracy and reliability of information that can be utilised by users				
5.	[Annex 15, Para 5]	**Lack of implementation of AIRAC system**		Publication of critical aeronautical information will not follow standard procedure and can impact on safety of air navigation				
6.	[Annex 15, Para 5]	**Lack of timely issuance of notams**		Non- availability of critical aeronautical information via notams				
7.	Annex 4, [Para 3.2, 7.2, 13.2 & 16.2] [Annex 15, Para 4.2.3]	**Non production of aeronautical charts appropriate to the State**		Lack of critical information essential for safety of air navigation				

Item No	ICAO Reference Document & GPIs	Deficiencies				Corrective Action			Status
		Description	Date first reported	Remarks/ Impact of non-implementation		Action by States	Action taken/planned by State (including timelines/target dates)	Identified implementation impediment and action thereon	
8.	[Annex 4]	Non use of standard units of measurement		Can impact on safety of air navigation					
9.	[Annex 15, Para 3.2]	Non implementation of AIS Quality Management System (QMS)		Cannot guarantee quality and accuracy of aeronautical data being published in the AIP					
10.	[Doc 8126, Para 3.2.2 & 3.3]	Lack of effective AIS system		Processes and procedures relating to AIS will not be reliable and standardised					
11.	[Annex 15, Para 3.6.5]	Lack of AIS automation		Increases the chance of human errors during processing of aeronautical information and reduces efficiency of AIS					
12.	[Annex 15, Para 8.1]	Non provision of pre-flight information service at international airports		Lack of pre-flight information can affect flight planning by users and safety of air navigation					
13.	[Annex 15, Para 8.1]	Lack of AIS Aerodrome Units at International Airports		Cannot guarantee provisions of AIS					
14.	[Annex 15, Para 3.2]	Lack of adequate training of AIS personnel		Inadequate human resources to sustain the provision of AIS					

Note: ICAO Council definition of a Deficiency:

A deficiency is a situation where a facility, service or procedure does not comply with a regional air navigation plan approved by the Council, or with related ICAO Standards and Recommended Practices, and which situation has a negative impact on the safety, regularity and/or efficiency of international civil aviation.