



International Civil Aviation Organization  
Eastern and Southern African Office

**Thirteenth Meeting of the Air Traffic Management/Aeronautical  
Information Management/Search and Rescue Sub-Group  
(ATM/AIM/SAR SG/13)  
(Nairobi, Kenya, 16 - 19 September 2013)**

**Agenda Item 6: Performance Based Navigation (PBN) Implementation in AFI  
Region and AFI ATS Routes Network**

**STATUS OF AFI FLIGHT PROCEDURE PROGRAMME (AFI-FPP)**

*(Presented by AFI FPP)*

<p><b>SUMMARY</b></p> <p>This paper presents a summary of the status of AFI-FPP Implementation</p> <p>Action by the meeting is at <b>paragraph 3.</b></p>
<p><b>REFERENCES</b></p> <p>Resolution A37-11, October 2010 Letter to States AN 11/45.2.1-13/18, 28 February 2013 by ICAO Secretary General</p>
<p>This Working Paper is related to Strategic Objectives: A</p>

**1. INTRODUCTION**

1.1 ICAO Assembly provided Resolution A37-11 in October 2010 related to Performance-Based Navigation global goals. This Resolution replaced Resolution A36-23.

1.2 The AFI Flight Procedure Programme has been established by ICAO for all the States in AFI Region. Its initial duration is 3 years. The Office location is Dakar, Senegal.

1.3 A Letter of Intent was signed in November 2012 by ASECNA, ICAO and DGCA, France to establish Flight Procedure Programme for AFI Region.

1.4 State letter was sent on February 2013 by Secretary General to announce the launch of the AFI Flight Procedure Programme office during the year 2013 in Dakar, Senegal. The objectives of the Programme are presented and a questionnaire is attached to be completed.

1.5 The AFI Flight Procedure Programme Manager was appointed by ICAO, HQ in March 2013 and arrived on site at Dakar, Senegal in July 2013.

## 2. DISCUSSION

2.1 The AFI Flight Procedure Programme is a not-for-profit programme of excellence in the field of PBN implementation.

2.2 ICAO WACAF and ESAF regional offices support the AFI Flight Procedure Programme and give opportunity to the staff of the AFI Flight Procedure Programme office to participate to workshops and seminars they organize and meet and exchange with aviation community actors and partners during these meetings.

2.3 The aim of the AFI Flight Procedure Programme is to provide support to improve safety and efficiency of procedures in Africa in developing specific attention to PBN procedures. Airspace and procedure design techniques are used to facilitate benefits to PBN.

2.4 The AFI Flight Procedure Programme is related to PBN procedures and the support activities concern operations in terminal and approach areas. A37-11 Resolution concerns implementation of approaches with vertical guidance (APV: Baro VNAV and/or augmented GNSS).

2.5 Concerned aspects of PBN implementation are aeronautical data collection, airspace design, procedure design, safety case, operational validation for ATC/ATM personnel, PBN operational approval for aircraft operators, regulatory process approbation by civil aviation authorities and quality assurance. They are supported by experts in their fields.

2.6 The AFI Flight Procedure Programme is building its capacity to provide assistance, support and training for the activities defined in the Programme concept (reference to 2.5).

2.7 The activities are developed in seminars, workshops and training sessions, which will be organized in Dakar, Nairobi and any other location in Africa as needed, under the responsibility of the AFI Procedure Programme Office and conducted by AFI Procedure Programme team and external experts from partners when needed.

2.8 All activities are determined in reference to ICAO regulations and PBN documents published by ICAO.

2.9 AFI Procedure Programme Office activities requiring financial support are the organization of seminars, workshops and training sessions; aeronautical data collection and procedure design. Assistance, support and training sessions for procedure design, procedure operational validation, regulatory process for procedure approbation, ATC/ATM staff operational training and operational approval for aircraft operators are the others activities to be financially supported.

2.10 The resources to launch the AFI Flight Procedure Programme were provided by ASECNA and French Civil Aviation Directorate.

2.11 The human resources for the AFI Flight Procedure Programme Office are defined in the letter to States, as followed: AFI-FPP Manager, Chief procedure designers, Chief operational training, aeronautical data specialist, procedure designers, procedure designer instructors, administrative support and Information Technology staff.

2.12 AFI-FPP Manager was appointed by ICAO. Administrative support and Information Technology staff is seconded by ASECNA. All others resources will be

seconded to AFI Flight Procedure Programme by participating states.

2.13 The Civil Aviation administrations of AFI region are now invited to participate to the AFI Flight Procedure Programme by answering positively to the ICAO letter to States and attached questionnaire and by making contributions to participate actively to the Programme.

2.14 The questionnaire gives opportunity to present the current situation and capability of a state in PBN procedure domain. It is also asked to answer to possible financial and/or in-kind contribution (seconded expert) and possible use of services provided by AFI Flight Procedure Programme.

2.15 The State contribution could be a financial contribution, which annual amount has to be determined, and/or in-kind contribution in secondment of experts in their fields.

2.16 At the end of June 2013, 12 States answered to the ICAO Secretary General letter and fulfilled the questionnaire (see Annex A):

- 3 states would participate financially, provide experts and use services;
- 3 states would participate financially and use services;
- 4 states would only use services;
- 2 states would not participate to the AFI-FPP Programme.

2.17 Experts will be procedure designers, procedure designer instructors and specialists in domains defined in 2.5. Expert job descriptions will be provided by AFI Flight Procedure Programme Office.

2.18 Others partners from aviation community or involved in aviation safety improvement are welcome for participation and financial and/or logistical support. Economical communities, financial organizations, airlines organizations, aircraft operators, aircraft manufacturers, aeronautical data providers and others organizations or private companies involved in aeronautical domains are concerned.

2.19 A State contributing financially and/or by expert secondment is member of the AFI Flight Procedure Programme Steering Committee. Partner contributors could be considered as a partner member of the AFI Flight Programme Steering Committee without voting rights.

2.20 State financial contribution includes participation fee to training sessions and partial costs for procedure design and related activities.

2.21 Workshops will be organized in early 2014 and located in Dakar (ICAO WACAF) and Nairobi (ICAO ESAF). AFI Procedure Programme Office objectives, Action Plan for year 2014 and following would be on the agenda. The detailed contents of the support activity and the training sessions will be presented with the participation of experts from external partners supporting the AFI-FPP.

### 3. DRAFT CONCLUSION

3.1 In this regard, the following Draft Conclusion is proposed to the meeting:

**States are invited to participate actively to the AFI-FPP activity by financial and/or in-kind support.**

**4. ACTION BY THE MEETING**

4.1 The meeting is invited to:

- a) note the information contained in this working paper;
- b) agree on the Draft Conclusion 3.1 above.

## APPENDIX A

## ESAF AND WACAF REGIONAL OFFICES

## STATES RESPONSES TO ICAO LETTER TO STATES

a) Financial contribution      b) In-kind contribution      c) Services

STATES		RESPONSE TO LETTER TO STATES	STATES		RESPONSE TO LETTER TO STATES
01	Algeria		28	Lybia	
02	Angola		29	Madagascar	
03	Benin		30	Malawi	
04	Botswana	a)YES c)YES	31	Mali	c)YES
05	Burkina Faso		32	Mauritania	
06	Burundi		33	Mauritius	c)YES
07	Cameroon	c)YES	34	Morocco	
08	Cape Verde		35	Mozambique	a)YES b)YES c)YES
09	Central African Republic		36	Namibia	
10	Chad		37	Niger	
11	Comoros		38	Nigeria	
12	Congo		39	Rwanda	
13	Cote D'Ivoire		40	Sao Tome and Principe	
14	Dem. Republic of Congo	a)YES b)YES c)YES	41	Senegal	c)YES
15	Djibouti		42	Seychelles	
16	Egypt		43	Sierra Leone	
17	Equatorial Guinea		44	Somalia	
18	Eritrea		45	South Africa	
19	Ethiopia	a)YES c)YES	46	Sudan	
20	Gabon		47	Swaziland	
21	Gambia		48	Tanzania	
22	Ghana		49	Togo	
23	Guinea		50	Tunisia	
24	Guinea- Bissau		51	Uganda	
25	Kenya	NO	52	Zambia	a)YES b)YES c)YES
26	Lesotho		53	Zimbabwe	a)YES c)YES
27	Liberia				

-END-