



# International Civil Aviation Organization

## African Flight Procedure Programme

Steering Committee Meeting #2  
21 October 2015  
Cidade Velha, Cabo Verde

2015/SC2/WP03/ATT A  
21/10/2015

### REPORT OF THE ACTIVITIES CONDUCTED IN 2015

#### 1. INTRODUCTION

1.1 The objective of this paper is to report on the activities of the African Flight Procedure Programme (AFPP) since AFPP Steering Committee Meeting #1 held on 16-17 December 2014.

#### 2. MEMBER STATES OF THE AFPP

2.1 On 15<sup>th</sup> October 2015, 32 African States have signed up or indicated interest in membership of the AFPP. These States are grouped as follows:

2.1.1 24 States as Active Participating States (APS): Angola, Burkina Faso, Cameroon, Cape Verde, Comoros, Congo, Cote d'Ivoire, Djibouti, DRC, Gabon, Gambia, Ghana, Guinea, Kenya, Mali, Mauritania, Mozambique, Niger, Nigeria, Senegal, Sierra Leone, Tanzania, Togo and Uganda;

2.1.2 Two (2) States as User States (US): Guinea Bissau and Madagascar;

2.1.3 States whose membership applications are pending signature as APS: Botswana and Rwanda; and US (Zimbabwe); and

2.1.4 States showing interest: Central African Republic, Namibia and South Africa.

2.2 Central African Republic is the latest African States which has showed interest in the Programme but has not as yet committed to join the Programme.

2.3 Since December 2014, Angola, Cameroon and Sierra Leone joined officially the Programme as APS.

	Active Participating States	User States	Observer States	Pending (outstanding action from States)
2014	21	2	0	4
2015	24	2	0	3

## 3. FOLLOW-UP OF 2015 WORK PROGRAMME

	WORK PROGRAMME ELEMENT	ACTIONS AND ACHIEVEMENTS
<b>WORKSHOPS / COURSES</b>		
	<p><b>Quality Assurance for Flight Procedure Implementation Process Workshop</b></p> <p>a) Workshop in Douala, Cameroon, 1-4 September 2015, 30 participants; French language;</p> <p>b) Workshop in Nairobi, Kenya, 3-6 November 2015, 30 participants; English language;</p> <p>c) Expertise: consultant and AFPP;</p> <p>d) Venues: Douala (Cameroon) and Nairobi (Kenya); and</p> <p>e) Expected results: Knowledge and expertise provision of the flight procedure implementation process.</p>	<p>Provision of the "Quality Assurance for flight procedure implementation" workshop, in Douala, Cameroon, was held 1-4 September 2015, hosted by Cameroon CAA in Douala, Cameroon. 21 representatives from 9 African States (Algeria, Angola, Burkina Faso, Burundi, Cameroon, Cote d'Ivoire, Djibouti, Mali, and Togo) CAAs and ANSPs attended the workshop. A workshop on the same subject will be organized in Nairobi, Kenya, 3-6 November 2015 hosted by Kenya CAA. Expertise and facilitation are provided by experts from AFPP and AIRBUS. The Douala Workshop was conducted in French and the Nairobi will be in English.</p>
	<p><b>Airspace design Workshop</b></p> <p>a) including CDO/CCO;</p> <p>b) 9-13 November 2015, 30 participants;</p> <p>c) Expertise: consultant and AFPP;</p> <p>d) Venue: Dakar, Senegal; and</p> <p>e) Expected results: Knowledge and expertise provision for airspace design associated to flight procedure design including PBN.</p>	<p>Preparation of the organization for the "PBN Airspace Design" workshop in Dakar, Senegal, 9-13 November 2015. Expertise and facilitation are provided by experts from AFPP and ICAO HQ.</p>
	<p><b>PBN Training Workshop for ATM</b></p> <p>a) 30 November – 04 December 2015, 30 participants;</p> <p>b) Expertise: AFPP (Instructors) and African State;</p> <p>c) Venue: African State form ESAF; and</p> <p>d) Expected results: Knowledge and expertise provision to ATM personnel of the PBN flight procedures concept and use.</p>	<p>Preparation of the organization for the "PBN for ATC/ATM personnel" workshop whose location is to be determined and dates could be in December 2015.</p>

	<p><b>PBN Operational Approval Course</b></p> <p>a) 23-27 November 2015, 20/30 participants;</p> <p>b) Expertise: consultant and AFPP;</p> <p>c) Venue: Abidjan (Côte d'Ivoire) (to be confirmed); and</p> <p>d) Expected results: Knowledge and expertise provision for Air Operators PBN Operational Approval by regulatory authorities and air operators.</p>	<p>Preparation of the organization for the "PBN Operational Approval" training course in Lomé, Togo, 23-27 November 2015. Expertise and facilitation are provided by experts from AFPP and ICAO HQ.</p>
	<p><b>Flight Procedure Design PBN Training Course (session 1, part B)</b></p> <p>a) To continue FPD Initial Course (session 1, part A), 2014;</p> <p>b) 2-26 June 2015;</p> <p>c) 20 days, 15 participants;</p> <p>d) Expertise: DGAC France (ENAC);</p> <p>e) Additional expertise: AFPP (Instructor);</p> <p>f) Venue: Dakar, Senegal; and</p> <p>g) Expected results: Final training for African States expert to become flight procedures designers.</p>	<p>Provision of the "PANS OPS PBN" training course in Dakar, Senegal, 1-26 June 2015. 13 experts from 9 CAA and ANSP from African States (Cape Verde (1), Cote d'Ivoire (2), Egypt (3), Kenya (1), Mauritania (1), Niger (1), Senegal (1), Tanzania (1), and Uganda (2)) participated to the course. Instructors from ENAC, France, conducted the course and the AFPP Instructors facilitated several sessions of the course. Information and actions to be launched for the OJT were distributed to States.</p>
	<p><b>Flight Procedure Design Initial Course (session 2, part A)</b></p> <p>a) 10 August – 04 September 2015, 15 participants;</p> <p>b) Expertise: AFPP (Instructors);</p> <p>c) Venue: Dakar, Senegal; and</p> <p>d) Expected results: Initial training for African States expert to become flight procedures designers.</p>	<p>Postponed to Work Programme 2016 Issue to obtain PANS OPS training package Discussions were conducted with several Aviation Schools or Academies and at the end ENAC, France is the only one to provide the training courses and the financial proposal (80,000 USD) is under study.</p>
	<p><b>Flight Procedure Design PBN training course (session 2, part B)</b></p> <p>a) To continue FPD Initial Course (session 2, part A), 2015;</p> <p>b) 3-27 November 2015, 15 participants;</p> <p>c) Expertise: AFPP (Instructors);</p> <p>d) Venue: Dakar, Senegal; and</p> <p>e) Expected results: Final training for</p>	<p>Postponed to Work Programme 2016 Issue to obtain PANS OPS training package Discussions were conducted with several Aviation Schools or Academies and at the end ENAC, France is the only one to provide the training courses and the financial proposal (80,000 USD) is under study.</p>

	African States expert to become flight procedures designers.	
<b>ASSISTANCE TO STATES</b>		
	Assistance to Cote d'Ivoire to implement a flight procedure design service in SODEXAM (ANSP);	OJT is provided to Cote d'Ivoire ANSP (SODEXAM) to pursue the training of designer during the June PANS OPS training course. The OJT concerns Korhogo, Man, Odienne and Yamoussoukro (International) airports.
	Assistance for regulatory approval of PBN flight procedures in Djibouti;	Assistance to Djibouti Civil Aviation related to PBN flight procedures designed for Djibouti International Airport was prepared to be conducted in October 2015. Instrument flight procedures, including PBN, designed by private company, are expected to be approved by end of Year 2015.
	Assistance to Togo for implementation of a regulatory approval service for flight procedures;	Assistance provided to Togo Civil Aviation Authorities (ANAC-Togo). A three-day mission was conducted in Lomé, 9-11 June 2015. The objective was to present in details the regulatory approval process for an instrument flight procedure to the ANAC-Togo. An AFPP expert was accompanied by the flight procedure designer from ASECNA who designed the procedure. Representatives from ANAC-Togo, ASECNA in Togo, Lomé Airport Management and air operators based in Lomé Airport participated to the meeting. Instrument flight procedures, including PBN, designed for Niamtougou International airport are expected to be approved by end of Year 2015. It is expected that other instrument flight procedures in force in Lomé International Airport will be approved following the action.
	Assistance to Mali for implementation of PBN procedures in 4 airports;	Assistance to Mali Civil Aviation (ANAC-Mali) related to PBN flight procedures to be designed for 3 airports in the North East of Mali (Gao, Timbuktu and Kidal) used by MINUSMA was prepared to be conducted after the termination of the design. The design is done by ASECNA for

		MINUSMA. The AFPP will carry out assistance for regulatory approval process and calendar will be determined in collaboration with ANAC-Mali and ASECNA. It is expected that other instrument flight procedures in force in other international and domestic airports in Mali will be approved following the action.
	National PBN Implementation Plan	States which received assistance from the AFPP to develop their Plans: Cape Verde, Gabon, Sierra Leone and Mali
<b>OTHER ASSISTANCE ACTIVITIES</b>		
	Gabon	Assistance provided to Gabon Civil Aviation Authorities (ANAC-Gabon) in relation with approval of PBN flight procedures for Gamba airport, private airport whose management is delegated to Shell Gabon. Design was provided by CGX-AERO and supported by AIRBUS. AFPP Manager conducted a three-day assistance mission 24-26 March 2015 in Libreville, Gabon. Remote assistance was conducted until the final approval by ANAC-Gabon which occurred in May 2015. It is expected that other instrument flight procedures in force in other international and domestic airports in Gabon (Libreville, Franceville and Port Gentil) will be approved following the action.
	Ghana and Uganda	Exchanges were conducted with <b>Ghana and Uganda</b> CAAs to define organization of the OJT following the June PANS OPS training course.

<b>SUPPORT</b>		
	OJT for designers from Cape Verde, Ghana, Kenya, Niger and Uganda	Calendar to be determined according to information received from experts trained in October 2014/June 2015 as PANS OPS designers
	Participation to AIRBUS project for full PBN deployment process for an airport.	Activity presented by AIRBUS during the AFPP SC/1. On-going action to select the airport
<b>PROCEDURE DESIGN</b>		
	Procedure design (conventional and PBN) for Cote d'Ivoire (SODEXAM, ANSP), Bouaké, Korhogo, Man and Odienne airports;	Flight procedures (conventional and PBN) design process continued for Cote d'Ivoire ANSP (SODEXAM) related to the Korhogo, Man, Odienne and Yamoussoukro airports. Missions for ground and flight validations, were conducted in March and May 2015 by the AFPP designer whose finalization of actions was done in July 2015. Cote d'Ivoire is now doing the OJT for trained designers under oversight of the AFPP.
	Procedure design (conventional and PBN) for Cameroon CAA, Maroua-Salak airport;	Flight procedure design (conventional and PBN procedures) was initiated for Cameroon CAA related to Maroua International Airport. Mission for data collection and meetings as described in ICAO design process, was conducted in July 2015 by the AFPP designer. Finalization of the project is expected for December 2015.
	Procedure design for Ghana, Kumasi	Action on-going, waiting for information from Ghana
<b>OTHER PROCEDURE DESIGN ACTIVITIES</b>		
	Zimbabwe	Assistance requested from Zimbabwe CAA in relation with instrument flight procedures for Victoria Falls International airport. A technical and financial offer was provided and still under study by the Zimbabwe CAA.

	Request from Namibia for implementation of PBN procedures in several airports	Assistance was requested from Namibia CAA in relation with PBN flight procedures for airports in Namibia. All necessary information and documentation (including AFPP Programme Document) presenting the AFPP activities were forwarded. Namibia finalized discussions with another supplier and was supported by another State CAA for regulatory approval of the instrument flight procedures.
<b>INTERNAL ACTIVITIES</b>		
	Report SC/1	The report of the 1st meeting of the AFPP Steering Committee was approved by the Chairman and distributed to Member States.
	AFPP Strategic Action Plan	The AFPP Strategic Action Plan was approved by the AFPP SC Chairman.
	Training for AFPP team	Senior designers who will be seconded by ASECNA and Tanzania CAA, respectively as AFPP Chief of Flight Procedures Designers and Flight Procedure Designer, participated to a PANS OPS Flight Procedure Designer Instructor course conducted by ENAC, France, 5-23 January 2015 in Toulouse and passed the exam to become Instructors for the AFPP.
	Mission of the AFPP Manager	The AFPP Manager conducted a mission in Toulouse, France in February 2015 in order to conduct coordination meetings for expected support (expertise and financial support) of industry partners (AIRBUS, EGIS-AVIA) and ENAC/DGAC France possible expertise, validate contents of the next PBN Flight Procedure Training Course provided in May/June 2015 by ENAC and the Flight Procedure Design training course package proposed by ENAC in order to support AFPP events in relation to the AFPP Strategic Action Plan. A meeting is also organized with GéoTitan software provider for implementation and maintenance schedule.

	Automated procedure design software	Installation of GéoTitan software (automatic design) licenses on computers of the AFPP by ENAC team. Training for use of software and internal network was also provided.
	Botswana and AFPP	Exchanges with Botswana CAAs conducted in relation with AFPP activities and Programme Document about the different Member status for African States. Botswana informed the intend to join the AFPP as APS.
	Joint ICAO/AFPP/AFCAC PBN Survey	Joint ICAO-AFPP/AFCAC survey on PBN was sent to States in May 2015. On 15 <sup>th</sup> October 2015, 15 States has responded to the survey questionnaires. The survey was dedicated to the status of the National PBN Implementation development and submitted to the ICAO Regional Offices, and the States' needs and requests related to the activities conducted by the AFPP. The information was used to update the activities of the AFPP on PBN implementation.
	Participation to ICAO Regional Office activity	Participation to the ATM/AIM/SAR SG/14 meeting in Dakar, Senegal, 12-14 May 2015.
	Participation to ICAO Regional Office activity	Participation and presentation about Aeronautical Data for instrument flight procedure design to the AFI AIM/SWIM Seminar in Dakar, Senegal, 7-9 September 2015