



# African Flight Procedure Programme

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**Subject:** AFPP activities, 4<sup>th</sup> Quarter 2015

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## 1. INTRODUCTION

1.1 The objective of this paper is to report on the activities of the African Flight Procedure Programme (AFPP) during 4<sup>th</sup> Quarter of Year 2015.

## 2. MEMBER STATES OF THE AFPP

2.1 On 31<sup>st</sup> December 2015, 31 African States had signed up or indicated interest in membership of the AFPP. These States are grouped as follows:

- a) 25 States as Active Participating States (APS): Angola, Botswana, 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;
- b) 2 States as User States (US): Guinea Bissau and Madagascar;
- c) State whose membership application is pending signature as US (Zimbabwe); and
- d) States showing interest: Namibia and South Africa.

2.2 Central African Republic (CAR) is the latest African States who showed interest to the Programme.

2.3 Botswana is the latest African States who signed the AFPP Programme Document as Active Participating State (APS).

## 3. ACTIVITIES

### 3.1 Seminars/Workshops/Training courses

3.1.1 Facilitation of the "Quality Assurance for flight procedure implementation" workshop, in Nairobi, Kenya, on 3-6 November 2015. The event was hosted by the Kenya Civil Aviation Authority (CCAA) at the East African School of Aviation in Nairobi, Kenya. The expertise was also provided by AIRBUS ProSky senior expert in the PBN domain and AIRBUS Safety Director for Africa. Twenty-Five (25) representatives from Ten (10) African States (Algeria, Angola, Botswana, Egypt, Gabon, Ghana,

Kenya, Mozambique, Tanzania and Uganda) CAAs and ANSPs attended the workshop. The workshop was conducted in English.

3.1.2 Facilitation of the "Airspace Design" workshop on, 9-13 November 2015. The workshop was hosted by ASECNA at ERNAM, Dakar, Senegal. The expertise was provided by ICAO expert in PBN Operational domain from ICAO HQ, Montreal, Canada supported by AFPP flight procedures designers. Thirty (30) representatives from Fourteen (14) African States and Organizations (ASECNA, Botswana, Cameroon, Cabo Verde, Gabon, Ghana, Kenya, Mauritania, Senegal, Sierra Leone, Sudan, Tanzania, Togo, The Gambia and Uganda) attended the workshop. The workshop was conducted in English.

3.1.3 Facilitation of the "PBN Operational Approval" training course on 13-27 November 2015. The event was hosted by the Togolese Civil Aviation Authority (ANAC-Togo) at the Sancta Maria Hotel in Lomé, Togo. The venue was changed from Abidjan, Cote d'Ivoire to Lomé, Togo due to technical reasons. The expertise was provided by ICAO expert in PBN Operational domain from ICAO HQ, Montreal, Canada. Thirty-One (31) representatives from Ten (10) African States and Organizations (Burkina Faso, Cameroon, Cote d'Ivoire, Gabon, Niger, Nigeria, Senegal, Togo, Uganda and Roberts FIR) and Eight (8) air operators (Arik Air, Asky, Togo Air Force, Camair-Co, Comfort Jet and Med-View Airline) attended the workshop. The workshop was conducted in English with translation.

3.1.4 The workshop "PBN for ATC/ATM personnel" workshop whose location and dates were to be determined, was postponed in 2016.

### 3.2 Assistance to States

3.2.1 Assistance to Djibouti Civil Aviation Authority on PBN flight procedures designed for Djibouti International Airport was conducted on 15-17 November 2015. Meetings were conducted with the support of private company CGX-Aero to Djibouti CAA (DAC) and Djibouti ANSP (Aéroport International de Djibouti) in order to present PBN concept, flight procedure approval process in relation to ICAP Doc 990 on Instrument Flight Procedures Design. The design was done by CGX-AERO. Actions were taken by parties and regulatory approval by DAC Djibouti and publication on e-ANP Djibouti are expected by March 2016.

3.2.2 Assistance to Mali Civil Aviation (ANAC-Mali) related to PBN flight procedures designed for 4 international and domestic airports (Gao, Timbuktu, Tessalit and Kidal). The design is done by ASECNA for MINUSMA. In relation to the calendar provided by ASECNA for design actions, the assistance mission would be conducted in Q2 2016.

3.2.3 Assistance to Sierra Leone (Sierra Leone CAA) related to the quality of procedures design for the Freetown new airport project. AFPP designers were studying design done by a private company. Design project would shortly be launched for PBN flight procedures at Freetown International Airport. Assistance was also provided for PBN Implementation Plan.

### 3.3 Flight procedures design

3.3.1 Flight procedures (conventional and PBN) design process continued for Cote d'Ivoire ANSP (SODEXAM) related to the Man Airport. Missions for flight and ground validation, was conducted in May 2015 by AFPP designer. Finalization of the project was done and procedure published in July 2015. The project will be continued with conventional flight procedures design for Korhogo and Odienné airports, but will be part of the OJT for designer trained during 2014 and 2015 PANS OPS training courses. Finalization of the projects is expected in Q2 2016.

3.3.2 Flight procedure design (conventional and PBN procedures) was initiated with Cameroon CAA with regards to the Maroua International Airport. Mission for data collection and meetings as described in ICAO design process, was conducted in July 2015 by AFPP designer. Design was done and was under review process Finalization of the project is expected on December 2015.

3.3.3 Project was initiated with Botswana CAA, Active Participating State, for conventional flight procedures design review at 4 international airports (Francistown, Gaborone, Kasane and Maun). The project includes also PBN flight procedures design for the same airports. Review and Technical and Financial proposal were under preparation.

### 3.4 Internal activities

3.4.1 AFPP Steering Committee, meeting #2: the meeting was held on 21<sup>st</sup> October 2015. It was hosted by Cabo Verde CAA at Vulcao Hotel in Cidade Velha, Praia Island. Thirteen (13) representatives from Ten (10) States (Algeria, Benin, Cape Verde, France, Gabon, Guinea Bissau, Sao Tome, Tanzania, Togo and Zambia) and One (1) organization (AIRBUS) participated. Unfortunately, States representatives from AFCAC, ASECNA, Cameroon, Guinea, Kenya, Mauritania and Sierra Leone were unable to participate due to last minute flight issues to Praia, Cape Verde. In the absence of the substantive AFPP Steering Committee Chair (Kenya) and Vice Chair (Nigeria), the meeting was chaired by Cape Verde. The meeting discussed and considered seven (7) working papers and twelve (12) associated attachments under 6 Agenda items which included:

- Follow up on the Decisions of the AFPP SC/1 meeting;
- the status of implementation of the 2015 AFPP Work Programme;
- Review and update of the AFPP Strategic Plan;
- the proposed 2016 work programme and Budget; and
- Proposed establishment of the AFPP Phase II Task Force.

The meeting adopted 9 decisions and 4 recommendations as detailed here under, and relating to:

- priority assistance to States with procedure design needs,
- payment of annual contributions in one or two instalments,
- proactively approaching States involved in new airport projects, for assistance,
- improvement and consolidation of administrative and financial efficiency,
- endorsement of the AFPP Strategic Action Plan with a request for further enhancement and development of a robust methodology for implementation of the Plan's key objectives,
- Definition of criteria for prioritizing AFPP beneficiary States
- secondment of qualified staff and On-the-Job-Training (OJT) for procedure designer qualification,
- validation of flight procedures designed by the AFPP,
- improve results/response rate for the Survey on PBN implementation, and
- Establishment of an AFPP Task Force and TOR to study the feasibility of extending the AFPP after Phase I.

The meeting noted with appreciation the offer from Zambia to host the next AFPP SC meeting in October 2016.

3.4.2 Attendance to the APIRG/20 meeting in Yamoussoukro, Cote d'Ivoire on 30/12-01/12/2015. Presentation of results of the AFPP activities was presented to participants.

3.4.3 As AIRBUS was preparing a global implementation of PBN flight procedures for an African airport, informal meeting was held with Mr Mamady Kaba, Roberts FIR Secretary General. Presentation of the AIRBUS Project was done and detailed information on Roberts FIR airports (Guinea, Liberia and Sierra Leone) is expected from Mr Kaba for final decision by AIRBUS management.

3.4.4 CGX-Aero provided installation and training on GéoTitan automated design software. AFPP Chief of designers and 3 ASECNA designers participated in the 5-day training.

3.4.5 AFPP Manager and Chief of Designers participated in the last 3-day meeting of SIASA Project hosted by EASA in Dakar, Senegal. Project SIASA was dedicated to the provision of guidance material to African Civil Aviation Authorities in relation to instrument flight procedures regulatory approval. Representatives from Cameroon, Kenya, Mauritania, and Nigeria were participated in this meeting facilitated by EASA expert. The final document should be validated by EASA management.

3.4.6 Correspondence with Ghana and Uganda CAAs conducted in relation with the OJT following the PANS OPS training courses. Replies to technical proposals are soon expected.

3.4.7 Informal meeting was conducted with Raphael Quezada, FAA expert on side to the Quality Assurance meeting in Nairobi, Kenya, on follow-up of the previous meeting (2016 Q3). No answers were provided but possible participation of AFPP instructor to a PANS OPS training course that FAA was planning to organize in 2016 for African States.

3.4.8 Joint ICAO-AFPP/AFCAC survey on PBN conducted in May 2015, was sent again to NPPMs. Four (4) additional States (total 18) responded to the survey on National PBN Implementation Plan and PBN flight procedures development.

#### 4. EXPECTED OUTPUTS

4.1 Seminars/Workshops/Training courses will be organized during the Year 2015, focusing on "Quality Assurance for Instrument Flight Procedures Implementation", "PBN Airspace Design", "PBN for ATM", "Data Origination", "PBN OPS Approval", and "PANS OPS designer training courses". Detailed sessions on the items would give participants a better knowledge of PBN implementation in order to launch necessary actions in their States to meet the ICAO goals for PBN implementation in Africa.

4.2 Activities regarding flight procedures design, including PBN, will be conducted during the Year 2015, with the AFPP designers. Actions will prioritize States and airports for which PBN procedures implementation level is low enough to be considered as an urgent matter. As expressed by ICAO and recent African meetings resolutions, PBN flight procedures will have to be developed for at least one runway end at International Airports by end 2016. An action Plan would be developed during the first 2016 Quarter.

4.3 National PBN Implementation Plan is a major issue in PBN implementation. It is recommended that every African State develops or reviews its Plan by end 2016. Dedicated assistance would be provided as an urgent matter as 10/24 WACAF States and 15/24 ESAF States developed and submitted their Plan to the ICAO Regional Offices.

## 5. FINANCES on 31<sup>st</sup> December 2015

5.1 The annual individual contribution required of each APS, with effect from 1 January 2015, is USD 10,000. Twelve (12) States paid the annual contribution: Angola, Cape Verde, Cameroon, Cote d'Ivoire, Djibouti, Kenya, Mali, Niger, Nigeria, Togo, Tanzania and Uganda).

5.2 Incomes: ANAC-Cote d'Ivoire paid part of USD 50,000 global invoice for flight procedures design. Egypt CAA paid fees for participation of 3 designers from Egypt CAA to the PANS OPS PBN training Course hold in June 2015 at Dakar, Senegal.

5.2.1 Expenses: Manager mission, participation of AFPP designers to PANS OPS Instructor course. Miscellaneous for PANS OPS PBN Course, June 2015.

	Incomes	Expenses	Balance
<b>Annual contribution</b>	117,785		
<b>Design</b>	34,430		
<b>Course participation</b>	11,945	13,760	150,400

5.3 On 31<sup>st</sup> December 2015, the global financial balance is USD 150,400.