



THIRTEENTH AIR NAVIGATION CONFERENCE

Montréal, Canada, 9 to 19 October 2018

COMMITTEE A

Agenda Item 4: Implementing the global air navigation system and the role of planning and implementation regional groups (PIRGs)

4.3: Implementing ASBUs for performance improvement

STATUS OF IMPLEMENTATION OF THE AFRICAN FLIGHT PROCEDURE PROGRAMME (AFPP)

(Presented by the 54 Contracting States, Members of the African Civil Aviation
Commission (AFCAC)²)

EXECUTIVE SUMMARY

This paper presents the implementation status of the African Flight Programme (AFPP) since the operations started in June 2014 in relation to performance-based navigation (PBN) implementation in aviation system block upgrade (ASBU) framework.

Action: The Conference is invited to:

- a) note the information contained in this working paper;
- b) acknowledge the contribution of the AFPP to the implementation of the performance-based navigation goals by African States;
- c) encourage African States to join the AFPP; and
- d) encourage States, organizations and industry to continue to provide their support to the AFPP activities during Phase II of the Programme to achieve PBN goals and enhance safety and efficiency of air transport operations in African States.

1. INTRODUCTION

1.1 The African Flight Procedure Programme (AFPP) was established by ICAO with the support of France (DGCA) and the Agency for Air Navigation Safety in Africa and Madagascar (The ASEENA) (Host Administration) in February 2013. This capacity building Programme was formally launched in June 2014 for a three-year period (Phase I of the programme) for the purpose of assisting States to develop sustainable capability and/or be provided with services in the instrument flight

¹ English and French versions provided by AFCAC.

² Algeria, Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Cap Verde, Central African Republic, Chad, Comoros, Congo, Cote D'Ivoire, Democratic Republic of The Congo, Djibouti, Egypt, Equatorial Guinea, Eritrea, Ethiopia, Eswatini, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Republic of Libya, Madagascar, Malawi, Mali, Mauritania, Mauritius, Morocco, Mozambique, Namibia, Niger, Nigeria, Rwanda, Sao Tome And Principe, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, South Sudan, Sudan, Togo, Tunisia, Uganda, United Republic Of Tanzania, Zambia, Zimbabwe.)

procedure domain so as to meet their commitments under ICAO Assembly Resolutions A36-23 and A37-11 on performance-based navigation (PBN) implementation, in accordance with a recommendation from the ICAO Special AFI Regional Air Navigation Meeting (Durban, South Africa, November 2008). The programme is a non-profit programme of excellence in the field of PBN implementation. Thirty-three States are to date members of the AFPP, twenty-nine as active participating States (APS) and four as user States (US). The programme is also supported through secondment of experts and/or provision of equipment, funds, etc. by donors which include non-participating States and Industry (Cote d'Ivoire, France, Ghana, Kenya, Airbus).

1.2 The AFPP activities are conducted in compliance with the provisions of the AFPP Programme Document signed by ICAO and States, based on the annual work programme and budget approved by the AFPP Steering Committee (SC) under the Chairpersonship of Kenya Civil Aviation Authority. The Steering Committee has so far held four meetings in 2014 (SC/1, Nairobi, Kenya), 2015 (SC/2, Cidade Velha, Cabo Verde), 2016 (SC/3, Livingstone, Zambia) and 2017 (SC/4, Abidjan, Cote d'Ivoire).

2. DISCUSSION

2.1 AFPP activities are focused on PBN flight procedures implementation as a global air navigation priority, in relation to ICAO Aviation System Block Upgrades (ASBU), namely Block 0 Module B0-APTA under Performance Improvement Area 1 "Airports Operations" and Modules B0-CCO and B0-CDO under Performance Improvement Area 4 "Efficient Flight Paths – Through trajectory-based operations". The AFPP activities are developed through training, support and assistance to African States.

2.2 The main activities being conducted under the AFPP programme include workshops, training courses and assistance activities. Key achievements include the following deliverables:

- a) PBN Airspace Design Concept workshops for 57 participants from 20 States;
- b) Data Origination workshop for 23 participants from 11 States;
- c) *Procedures for Air Navigation Services — Aircraft Operations* (PANS-OPS, Doc 8168) Conventional and PBN Procedure Design Courses for 37 participants from 20 States;
- d) PANS OPS Designer OJT for six States; and
- e) PBN OPS Approval workshops for 78 participants from 19 States.

2.3 Instrument flight procedure implementation projects (including design and regulatory approval assistance) were conducted or initiated for 26 airports in 11 African States. The AFPP directly conducted implementation including design of around 50 conventional flight procedures and 60 PBN flight procedures for these airports. The activity related to PBN flight procedure implementation is considered as a priority as expressed in an AFPP Steering Committee (SC) recommendation for 2016 and 2017, including new international airport projects.

2.4 To date, 42 African States (78% of African States) developed and submitted their National PBN Implementation Plans. Four (4) African States have developed their Plans which are pending formal approval. AFPP also assisted 12 African States to finalize their plans.

2.5 The AFPP is building its internal capacity to deliver on its assigned programme of activities. The AFPP team is composed of a programme manager recruited by ICAO and seconded experts in the domain of instrument flight procedures design. ASECNA and four African States (Cote d'Ivoire, Ghana, Kenya and Tanzania) have seconded experts to the AFPP, permanently or for period corresponding to dedicated activity, in order to increase AFPP operating capabilities.

2.6 The AFPP budget is based on expenses for events organization and participation, and incomes from APS Member States Annual Contribution and flight procedures design projects. Therefore, APS Member States are invited to timely pay their annual contributions to sustain the AFPP budget.

2.7 Other partners from aviation community involved in aviation safety improvement are welcome for participation and financial and/or logistical support to the AFPP. These partners are regional economic communities, financial organizations, airline organizations, aircraft operators, aircraft manufacturers, aeronautical data providers and other organizations or private companies involved in aeronautical domains.

2.8 Based on the positive results achieved by the AFPP, the AFPP SC/4 meeting in April 2017 approved the renewal of the AFPP for Phase II, for an additional three-year period (Phase II of the Programme). A new AFPP Manager has been recruited by ICAO for this phase. The AFPP Programme Document has been updated accordingly and will be signed by African States to confirm their membership.

3. CONCLUSION

3.1 The Conference is invited to:

- a) acknowledge the contribution of the AFPP to the implementation of the performance-based navigation goals by African States;
- b) encourage African States to join the AFPP; and
- c) encourage States, Organizations and Industry to continue to provide their support to the AFPP activities during Phase II of the Programme to achieve PBN goals and enhance safety and efficiency of air transport operations in African States.

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