

# African Flight Procedure Programme

### AFPP ACTIVITY REPORT, 2016, 4th Quarter

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 2016 and provide highlights of 2016 AFPP programme of activities.

### **AFPP MEMBERSHIP**

Angola, Botswana, Burkina Faso, Cabo Verde, Cameroon, Chad, Comoros, Congo, Cote d'Ivoire, Djibouti, DRC, Gabon, Gambia, Ghana, Guinea Bissau, Guinea Equatorial, Kenya, Madagascar, Mali, Mauritania, Mozambique, Niger, Nigeria, Roberts FIR (Guinea, Liberia and Sierra Leone), Senegal, Tanzania, Togo, Uganda, Zambia and Zimbabwe.

	total	APS	US	Pending APS	Pending US	Last signature
2016, Q4	30	26	4	2		Roberts FIR and Zambia

Roberts FIR (in name of Guinea, Liberia and Sierra Leone) and Zambia joined the AFPP as APS. Egypt and Somalia requested information to become Members of the African Flight Procedure Programme.



## PROGRAMME ACTIVITIES, $\mathbf{4}^{\text{TH}}$ QUARTER 2016

TITLE	TEXT	Q4 ACTIVITY	INITIATION	STATUS	EXPECTED COMPLETION				
ASSISTANCE TO ST	TATES		•						
National PBN	Outcomes: National PBN Plan developed and submitted to ICAO	atcomes: National PBN Plan developed and submitted to ICAO WACAF Regional Office.							
Implementation	Cameroon								
Plan	After assistance to Cameroon CAA (CCAA) to develop the	Assistance for consolidation	2016 Work	Completed					
	National PBN Implementation Plan of Cameroon through the	of the Plan.	Programme						
	National PBN Committee, the consolidated Plan was signed by	Follow-up for Submission of							
	CCAA DG on November 2016 and submitted to ICAO Regional	the Plan.							
	Office.								
	Mali								
	Assistance to Mali CAA (ANAC-Mali) started in 2015 for	Assistance for consolidation	2015 Work	On-going	1 <sup>st</sup> Quarter,				
	consolidation and finalization in November 2016 of the National	of the Plan.	Programme		2017				
	PBN Plan which is under signature process by ANAC-Mali DG.								
	Congo, Guinea and Sao Tome								
	After attendance to a 3-day workshop conducted in French by	Assistance for consolidation	2016 Work	On-going	1 <sup>st</sup> Quarter,				
	AFPP experts on request and in collaboration with ICAO WACAF	of the Plan.	Programme		2017				
	Office, draft copy of the Plan was developed by Congo, Guinea								
	and Sao Tome and Principe CAA. Assistance is provided by the								
	AFPP to consolidate the Plans.								
	Chad								
	Assistance to Chad CAA (ADAC-Chad) for consolidating National	Assistance for consolidation	2016 Work	On-going	1 <sup>st</sup> Quarter,				
	PBN Implementation Plan by end of March 2017.	of the Plan.	Programme		2017				



TITLE	TEXT	Q4 ACTIVITY	INITIATION	STATUS	EXPECTED COMPLETION
Instrument	Outcomes: Regulatory approval of instrument flight procedures a	t international and domestic air	rports in State.		
Flight	Mali				
Procedures	Assistance provided to Mali CAA (ANAC-Mali) related to	Follow-up for PBN flight	2015 Work	Completed	
Implementation	instrument flight procedure (conventional and PBN)	procedures approval and	Programme		
Process	implementation process and based on the Quality Assurance	publication.			
(conventional and PBN)	process, including regulatory approval of PBN flight procedures designed by ASECNA for 3 airports in the North East of Mali (Gao, Timbuktu and Tessalit) on MINUSMA request. 9906). Procedures approved by ANAC-Mali in November 2016 and published in ASECNA AIP in December 2016.				
	Cameroon				
	Assistance provided in June 2016 to Cameroon CAA (CCAA) based on the Quality Assurance process (Doc 9906) including regulatory approval of PBN flight procedures designed by AFPP for Maroua International Airport. Assistance. Process was slowed by issues for procedure validation (see section "Procedure Design, IFPD Cameroon"). Finalization of approval process is expected by 1st Quarter 2017.	conventional and PBN flight procedures approval	2015 Work Programme	On-going	1 <sup>st</sup> Quarter, 2017
	Djibouti Due to implementation of PBN flight procedures at Djibouti International Airport, training about Quality Assurance Implementation process was provided by the AFPP experts to Djibouti Airport and Civil Aviation Authority on December 2015. Follow-up assistance raised issues related to step 8 of Quality Assurance process, preflight evaluation (ground validation) and flight validation actions. Air France provided positive conclusions for flight procedures validation step. Regulatory approval process finalized implementation by August 2016. But issues are still existing for ATC to operate PBN procedures.		2015 Work Programme	On-going	1 <sup>st</sup> Quarter, 2017



TITLE	TEXT	Q4 ACTIVITY	INITIATION	STATUS	EXPECTED
					COMPLETION
<b>AIRBUS Project</b>	Outcomes: capabilities acquired by States (Guinea, Liberia and	Sierra Leone) and Roberts FIR	for Airspace M	anagement a	nd oversight of
Instrument flight	Instrument Flight Procedures implementation.				
procedures	Guinea, Liberia, Sierra Leone				
implementation	Instrument flight procedures implementation global process to	Definition and consolidation	2016 Work	On-going	4 <sup>th</sup> Quarter,
process	be developed for an African State, based on PBN flight	of Terms of Reference for	Programme		2017
	procedures at an airport.	activity.			
	Activity presented by AIRBUS during AFPP SC/1. Freetown				
	International Airport selected for PBN flight procedures				
	implementation. States of Guinea, Liberia and Sierra Leone,				
	members of ROBERTS FIR, involved in the Project, as all activities				
	related to instrument flight procedures implementation are part				
	of the Project (design, training, assistance). AIRBUS delivered				
	final and positive decision on September 2016 after Introduction				
	meeting held in Sierra Leone, 7-9 September 2016, with all				
	involved stakeholders. Project Management is under				
	development between AIRBUS, AFPP, States and Roberts FIR.				
	Kick-off meeting will be conducted on 16-20 January 2017.				



TITLE	TEXT	Q4 ACTIVITY	INITIATION	STATUS	EXPECTED COMPLETION			
INSTRUMENT FLIC	HT PROCEDURE DESIGN							
Instrument	Outcomes: Conventional and PBN Flight procedures implementation at International and Domestic airports.							
Flight Procedure	Cameroon			On-going	1 <sup>st</sup> Quarter,			
Design	Conventional and PBN flight procedures design for Cameroon	Assistance to develop	2016 Work		2017			
(conventional	CAA at Maroua International Airport.	conventional and PBN flight	Programme					
and PBN)	Design finalized by AFPP in April 2016. Implementation process	procedures approval						
	presently slowed as CCAA had issue to find an aircraft and	process.						
	experts to participate in step 8 of Quality Assurance process							
	related to the preflight evaluation (ground validation) and flight							
	validation actions. The activity was done in September 2016							
	coupled to ATC training by AFPP expert. Approval process is							
	launched to be finalized by 1 <sup>st</sup> Quarter 2017.							
	Botswana							
	To respond to request from Botswana CAA, proposal sent for	Definition and consolidation	2016 Work	On-going	3 <sup>rd</sup> Quarter,			
	review and design for PBN flight procedures at 4 International	of Terms of Reference for	Programme		2017			
	Airports (Francistown, Gaborone, Kasane and Maun). Technical	activity.						
	and financial proposals were validated and accepted by							
	Botswana CAA. Design will be conducted by AFPP designers.							
	Timetable for activity is under preparation, to start activity in							
	end of February 2017 for 9 months.							



TITLE	TEXT	Q4 ACTIVITY	INITIATION	STATUS	EXPECTED			
					COMPLETION			
TRAINING COURS	RAINING COURSES							
Flight Procedure	Outcomes: State capability developed for conventional and PBN	comes: State capability developed for conventional and PBN flight procedures design.						
Design PBN	Training related to PBN procedures, for participating experts to	Flight procedures design PBN	2016 Work	Completed				
Course	become PANS OPS instrument flight procedures designers.	course conducted for 12	Programme					
(session 2B)	20-day session for course, dedicated to PBN procedures, as part	experts.						
	of the 2016 AFPP Work Programme. Venue was AFPP premises							
	in Dakar, Senegal, from 21 November to 16 December 2016.							
	Expertise and facilitation was provided by AFPP PANS OPS							
	Instructors.							
	Contents of the course was purchased to ENAC, France, after							
	success of Call for Tenders.							
	12 experts from 8 States and Organization participated to the							
	course.							



TITLE	ТЕХТ	Q4 ACTIVITY	INITIATION	STATUS	EXPECTED
					COMPLETION
WORKSHOPS					
Aeronautical	Outcomes: provision of knowledge on development of aeronau	tical data for IFP design to per	sonnel in char	ge of procedu	ires design and
Data Origination	implementation oversight.				
for IFP Design	Knowledge to States in developing capability for aeronautical	Aeronautical Data	2016 Work	Completed	
	data collection, including obstacles and terrain, for instrument	Origination for IFP Design	Programme		
	flight procedures implementation.	conducted for 25 experts			
	The 3-day workshop, part of the 2016 AFPP Work Programme,	with expertise from AFPP			
	hosted by ICAO WACAF Regional Office in Dakar, Senegal, from	Member States.			
	16-18 November 2016.				
	Facilitation provided by KCAA/EASA, AFPP and ASECNA experts,				
	conducted in English.				
	25 experts from 15 States and Organizations participated to the				
	workshop.				
PBN Airspace	Outcomes: provision of PBN Concept for Airspace Design for CAA	and ATM personnel.			
Design Concept	Knowledge to CAA and ATM personnel of the PBN Concept for	PBN Airspace Design	2016 Work	Completed	
	Airspace Design.	Concept conducted for 27	Programme		
	The 10-day workshop, part of the 2016 AFPP Work Programme,	experts.			
	hosted by Tanzania CAA in Dar Es Salaam, Tanzania, on 24	·			
	October – 04 November 2016.				
	Facilitation provided by ICAO HQ and AFPP experts, conducted				
	in English.				
	27 experts from 9 States and Organizations participated to the				
	workshop.				



TITLE	TEXT	Q4 ACTIVITY	INITIATION	STATUS	EXPECTED COMPLETION
OTHER ACTIVITI	ES				•
AFPP Phase II	Composition of Task Force for AFPP Phase II: Tanzania	Organization of the first	2016 Work	On-going	1 <sup>st</sup> Quarter,
Task Force	(Coordinator), Kenya, Ghana and Cote d'Ivoire (APS	meeting of the AFPP Phase II	Programme		2017
	representatives), France and AIRBUS (Donors), AFCAC and	Task Force.			
	ASECNA. Meeting organized during the 3 <sup>rd</sup> AFPP Steering	Report distributed to TF			
	Committee meeting, 23 November 2016, Livingstone, Zambia.	Members.			
	Report provided to TF members. Next meeting, 25-27 January				
	2017, Nairobi, Kenya.				
3 <sup>rd</sup> AFPP	Meeting was hosted by Zambia CAA in Livingstone on 23-24	Organization of the 3 <sup>rd</sup>	2016 Work	Completed	
Steering	November 2016.	meeting of the AFPP steering	Programme		
Committee	Zambia has joined the AFPP Programme as an Active	Committee.			
	Participating State (APS).				
	Report to be provided to all African States members. Next				
	meeting on April 2017, venue to be defined.				



## PROGRAMME ACTIVITIES, to be launched during upcoming months

TITLE	TEXT	Q4 ACTIVITY	INITIATION	STATUS	EXPECTED COMPLETION			
ASSISTANCE TO ST	TATES							
Instrument	Outcomes: Regulatory approval of instrument flight procedures a	t international and domestic a	rports in State					
Flight Procedure	Equatorial Guinea							
Implementation	Assistance to be provided for Equatorial Guinea CAA related to	Initial contact with Civil	2016 Work	Preparation	(Phase II)			
Process	instrument flight procedure (conventional and PBN)	Aviation Authorities.	Programme	'	4 <sup>th</sup> Quarter,			
(conventional	implementation process, including regulatory approval of PBN		J		2017			
and PBN)	flight procedures designed by ASECNA for Bata International							
	Airport. Assistance based on the Quality Assurance process (Doc							
	9906). Follow-up to be conducted.							
INSTRUMENT FLIC	GHT PROCEDURE DESIGN							
Instrument	Outcomes: Conventional and PBN Flight procedures implementation at International and Domestic airports.							
Flight Procedure	Cameroon							
Design	To respond to request from Cameroon CAA for design for PBN	Development of Technical	2016 Work	Preparation	(Phase II)			
(conventional	flight procedures at Bafoussam International Airport. Technical	and Financial Proposals.	Programme		4 <sup>th</sup> Quarter,			
and PBN)	and Financial Proposal was provided to CAA.				2017			
	Zimbabwe							
	To respond to request from Zimbabwe CAA for design for PBN	Development of Technical	2017 Work	Preparation	(Phase II)			
	flight procedures at Harare and J.M. Nkomo International	and Financial Proposals.	Programme		4 <sup>th</sup> Quarter,			
	Airports and possibly at Chiredzi and Kariba airports, information				2017			
	was provided to CAA.							



TITLE	TEXT	Q4 ACTIVITY	INITIATION	STATUS	EXPECTED
					COMPLETION
TRAINING COURS	ES				
Flight Procedure	Outcomes: State capability developed for conventional flight proc	edures design.			
Design Initial	Training related to conventional and PBN procedures, for		2017 Work	Preparation	2 <sup>nd</sup> Quarter,
Course	participating experts to become PANS OPS instrument flight		Programme		2017
(session 3A)	procedures designers.				
	Expertise and facilitation will be provided by AFPP PANS OPS				
	Instructors.				
	20-day session for course, dedicated to conventional procedures,				
	as part of the 2017 AFPP Work Programme. Venue will be AFPP				
	premises in Dakar, Senegal.				
Flight Procedure	Outcomes: State capability developed for PBN flight procedures d	esign.			
Design PBN	Training related to PBN procedures, for participating experts to		2017 Work	Preparation	(Phase II)
Course	become PANS OPS instrument flight procedures designers.		Programme		4 <sup>th</sup> Quarter,
(session 3B)	Expertise and facilitation will be provided by AFPP PANS OPS				2017
	Instructors.				
	20-day session for course, dedicated to PBN procedures, as part				
	of the 2017 AFPP Work Programme. Venue will be AFPP premises				
	in Dakar, Senegal or Dar Es Salaam, Tanzania.				



TITLE	ТЕХТ	Q4 ACTIVITY	INITIATION	STATUS	EXPECTED
					COMPLETION
WORSHOPS					
Flight Procedure	Outcomes: Oversight CAA Services capability for approval of IFP in	mplementation project.			
Design Course	Knowledge to experts from CAAs (Flight procedures	Initial contact to define	2017 Work	Preparation	2 <sup>nd</sup> Quarter,
for Oversight	implementation oversight service) on conventional and PBN	venue for workshop.	Programme		2017
Service	flight procedures design.	Initial development of the			
Personnel	20-day workshop as part of the 2016 AFPP Work Programme.	workshop content.			
	Expertise and facilitation will be provided by AFPP PANS OPS				
	Instructors.				
	Due to AFPP PANS OPS Instructors heavy workload, workshop				
	postponed to 2017.				
PBN Operations	Outcomes: provision of training to CAA personnel for State capal	pility to approve Air Operators	for PBN Opera	tions.	
Approval	Training related to PBN Operations Approval of PBN Operations	Initial contact to define	2017 Work	Preparation	(Phase II)
	by Air Operators	venue for workshop.	Programme		4 <sup>th</sup> Quarter,
	The 5-day course, part of the 2016 AFPP Work Programme, is	Initial contact for			2017
	postponed to 2017 agenda, due to difficulties to find an hosting	organization of the			
	State and external expertise to facilitate the course.	workshop.			
	Expertise and facilitation would be provided by external				
	consultant and AFPP experts, conducted in English.				
	Training for experts from African States and African Air				
	Operators in order to create an AFPP internal capability				
	regarding this domain.				



#### **EXPECTED OUTPUTS**

- 1. Seminars/Workshops/Training sessions would be organized during Year 2016, focusing on "Quality Assurance for Instrument Flight Procedures Implementation", "PBN Airspace Design", "PBN for ATM", "Data Origination", "PBN OPS Approval", "PANS OPS designer training courses" and "PANS OPS design course for CAAs". Detailed sessions on the items would give participants a better knowledge of PBN implementation in order to take the necessary actions in their States to meet the ICAO goals for PBN implementation in Africa. Dedicated activities would be added when necessary during Year 2016.
- 2. Activities regarding flight procedures design, including PBN, will be conducted during Year 2016, with AFPP designers. Priority will be given to States and airports where PBN procedures implementation level is low. 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 the end of 2016. An action Plan would be developed.
- 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 priority action for 16/24 WACAF States and 15/24 ESAF States for the development and submission of National PBN Plan to the ICAO Regional Offices before end 2016.