



International Civil Aviation Organization

AFI Flight Procedures Programme

Seminar/Workshop preparation session

Services and Priorities

Dakar, 24-25 March 2014



- States facing procedure design-related issues and problems, lack or insufficiency in:
 - number of procedure designers and procedure design work in some States to attain or maintain proficiency
 - airspace and procedure design training: initial, OJT, and/or recurrent
 - knowledge to integrate procedure design efficiently into airspace design
 - knowledge and expertise in procedure design organization to perform quality assurance
 - obstacle data storage automation in the States
 - operational approval expertise to oversee operators for PBN operations
 - regulatory expertise to oversee the procedure publication process
 - service provision for ATC/ATM training for PBN implementation



- The Services of the AFI-FPP proposed
 - to assist **States with sufficient density** of procedures
 - establish a sustainable internal procedure design capability
 - Meet requirements of PANS OPS for quality of procedures
 - to provide to **States that do not have the density** of procedures
 - appropriate level of technical expertise
 - to provide access to **procedure design automation**
 - improve quality in State's procedure design process
 - data storage



- **Active Participating States**
 - African State
 - Part of Programme Steering Committee
 - Commitment to funding Programme with Annual financial contribution
 - May be waived through in-kind contribution under agreement by Steering Committee
 - Free services (training + OJT, assistance) and services by service fee
- **User States**
 - African State
 - No commitment to funding the Programme
 - Free services (training), and services by service fee (OJT, assistance)
- **Observer States**
 - Participating State not necessarily African
 - No commitment to funding the Programme
 - Services by service fee



- The Services of the AFI-FPP proposed to
 - provide training course and OJT
 - procedure designers at the FPP location and on-site
 - for Quality Assurance including flight procedure regulatory approval
 - for operators approval for PBN operations
 - for ATC/ATM and operators about PBN flight procedures operations



- The Services of the AFI-FPP proposed to
 - assist State
 - for PBN Plan implementation and related regulations: operational assessment, business case and activity planning
 - for aeronautical data collection and validation
 - for airspace and procedures design, priority to PBN
 - with ground and flight validation
 - for Quality Assurance (QA) including flight procedure regulatory approval
 - in operators approval for PBN operations
 - with any other associated assistance as required
 - develop procedures implementation for States that have no procedure design capability
 - extend training and services to stakeholders (ANSPs, air operators) for expediting the PBN implementation in accordance with ICAO Policy



- **ICAO Documentation**
 - Procedures for Air Navigation Services – Aircraft Operations (Doc 8168)
 - Performance Based Navigation Manual (Doc 9613)
 - World Geodetic System Manual (Doc 9674)
 - Guidelines for Electronic Terrain, Obstacle and Aerodrome Mapping Information (Doc 9881)
 - Required Navigation Performance – Authorization Required Procedure Design Manual (Doc 9905)
 - Quality Assurance Manual for Flight Procedure Design (Doc 9906)
 - Continuous Descent Operations Manual (Doc 9931)
 - Manual on Use of PBN in Airspace Design (Doc 9992)
 - Continuous Climb operations Manual (Doc 9993)
 - PBN Operational Approval Manual (Doc 9997)
- **ICAO Annexes 4, 11 and 15**
- **ICAO Assembly Resolutions A37-11 and A38-7**



- **Immediate Objectives**
 - Establish capability for PBN Implementation Plan workshop, using external expertise
 - Establish capability for operational approval of air operators by Civil Aviation Authorities (CAA) course, using external expertise
 - Establish operating capability of the FPP in the areas of procedure design including PBN, and initial PANS-OPS, PBN and OJT (On-The-Job) training capability
 - Establish Flight Procedure validation process and regulatory approval process support capability

- **Execute 2014 FPP annual work programme**



AFI FPP

Thank you

AFI-FPP, the Flight Procedure Programme for you and with you