

PBN APP Action Plan GPI 1, 12, 16, 21, 23				
1	Airspace Concept	Start	End	Remarks
1.1	Establish and prioritize Strategic Objectives (Safety, Capacity, Environment, etc)			
1.2	Analyse aircraft fleet navigation capacity operating in the Airport			
1.3	Analyse communication, ground navigation (VOR, DME) and surveillance for navigation specification and reversionary mode compliance			
1.4	Design Instrument Approach Procedure (RNP APCH/APV Baro-VNAV or RNP AR), based on the strategic objective of the airspace concept. Consider Airspace Modelling, ATC simulations (fast time and/or real time), Live Trials, etc.			
2	Develop Performance Measurement Plan			
2.1	Prepare Performance Measurement Plan, including gas emission, safety, efficiency, etc.			
2.2	Conduct Performance Measurement Plan			
3	Procedure safety assessment			
3.1	Determine which methodology shall be used to evaluate procedure safety, depending on the navigation specification. Consider Airspace Modelling, ATC simulations (fast time and/or real time), Live Trials, etc.			
3.2	Prepare a data collection programme for airspace safety assessment			
3.3	Prepare preliminary procedure (s) safety assessment			
3.4	Prepare final procedure (s) safety assessment			
4	Establish collaboration decision making (CDM) process			
4.1	Coordinate planning and implementation needs with Air Navigation Service Providers, Regulators, Users, aircraft operators and military authorities			
4.2	Establish implementation date			
4.3	Establish the documentation format of CAR/SAM RNAV/RNP Website			

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4.4	Report planning and implementation progress to the corresponding Regional Office			
5	ATC Automated Systems			
5.1	Evaluate the PBN implementation in the ATC Automated Systems, considering the Amendment 1 to the PANS/ATM (FPLSG).			
5.2	Implement the necessary changes in the ATC Automated Systems			
6	Aircraft and operator approval			
6.1	Be aware of the national implementation programme and of the required navigation specifications			
6.2	Analyse aircraft approval requirements, aircrew and operator approval requirements for the navigation specifications to be implemented, as contained in the ICAO PBN Manual			
6.3	Publish the national regulations to implement the required ICAO navigation specifications			
6.4	Approval of aircraft and operators for each type of procedure and navigation specification			
6.5	Establish and keep updated a record of approved aircraft and operators			
6.6	Verify operations with a continuing monitoring programme			
7	Standards and procedures			
7.1	Evaluate regulations for GNSS use, and if such were the case, proceed to its publication.			
7.2	Develop and publish AIC notifying PBN implementation planning			
7.3	Publish AIP Supplement including applicable standards and procedures			
7.4	Review Procedural Manuals of the ATS units involved			
7.5	Update Letters of Agreement between ATS units, if necessary			

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7.6	Provide procedures to accommodate non-approved RNAV/RNP aircraft, when applicable		
7.7	Conduct ATC simulations to identify the workload/operational factors, if necessary.		
8	Training		
8.1	Develop a training programme and documentation for operators (pilots, dispatchers and maintenance)		
8.2	Develop training programme and documentation for Air Traffic Controllers and AIS Operators		
8.3	Develop training programme to regulators (aviation safety inspectors)		
8.4	Conduct training programmes		
8.5	Hold seminars oriented to operators, indicating the plans and the operational and financial benefits expected		
9	Decision for implementation		
9.1	Evaluate operational documentation availability (ATS, OPS/AIR)		
9.2	Evaluate the percentage of approved aircraft and operations (mixed equipage concerns)		
9.3	Review safety assessment results		
10	System Performance Monitoring		
10.1	Develop post-implementation APP operations monitoring programme		
10.2	Execute post-implementation APP operations monitoring programme		
Pre operational implementation date			
Definitive implementation date			