PBN IMPLEMENTATION TOOLS

NATIONAL PERFORMANCE OBJECTIVES AND ACTION PLAN OPTIMIZATION OF THE ATS ROUTE STRUCTURE IN TERMINAL AIRSPACE PERIOD: Near Term (2008-2012) APPLICATION: Approach Phase						
		Benefits				
Environment:						
Efficiency:						
		Strategy				
PROCESS	TASKS	INPUT SOURCE	OUTPUT	TARGET DATE	ACTION PERSON/GROUP	STATUS
Preliminary						
	Review AFI PBN Implementation Plan Key Targets (Terminal- Approach)	AFI PBN Implementation Plan Near Term: 2008-2012 [Ch. 10-14]				
	Review State PBN Implementation Plan Key Targets (Terminal-Approach)	State PBN Implementation Plan Near Term: 2008-2012 [Ch. 5.1.2-5.1.3]				

PROCESS	TASKS	INPUT SOURCE	OUTPUT	TARGET DATE	ACTION PERSON/GROUP	STATUS
Terminal Applications Implementation						
Process 1 Determine Requirements	Step 1- Formulate airspace concept	PBN Manual, Vol. 1B Ch. B 2.3.1 ATM needs (civil/military)				
	Step 2- Assessment of existing fleet capability and available navaid infrastructure	PBN Manual, Vol. 1B Ch. B 2.3.2 > IATA Survey > State Survey				
	Step 3- Assessment of existing ATS surveillance system and communications infrastructure and ATM system	PBN Manual, Vol. 1B Ch. B 2.3.3				
	Step 4- Identify necessary navigation performance and functional requirements	PBN Manual, Vol. 1B Ch. B 2.3.4				

Navigation functional requirements Fleet capability CNS/ATM capabilities

Process 2 Identifying ICAO navigation specification for implementation	Step 1- Review ICAO navigation specifications	PBN Manual, Vol. 1B Ch. B 3.3.1 Navigation functional requirements Fleet capability CNS/ATM capabilities		
	Step 2- Identify appropriate ICAO navigation specification to apply in the specific CNS/ATM environment ➤ RNP APCH ➤ RNP AR APCH ➤ New specification?	PBN Manual, Vol. 1B Ch. B 3.3.2		
	Step 3- Identify trade-offs with airspace concept and navigation functional requirements (if necessary)	PBN Manual, Vol. 1B Ch. B 3.3.3		
			> Navigation	

specifications

Process 3 Planning and implementation	Step 1- Formulate safety plan	PBN Manual, Vol. 1B Ch. B 4.3.1 ➤ Navigation specifications			
	Step 2- Validate airspace concept for safety	PBN Manual, Vol. 1B Ch. B 4.3.2			
	Step 3- Procedure design	PBN Manual, Vol. 1B Ch. B 4.3.3			
	Step 4- Procedure ground validation	PBN Manual, Vol. 1B Ch. B 4.3.4			
	Step 5- Implementation decision	PBN Manual, Vol. 1B Ch. B 4.3.5			
	Step 6- Flight inspection and flight validation	PBN Manual, Vol. 1B Ch. B 4.3.6			
	Step 7- ATC system integration considerations	PBN Manual, Vol. 1B Ch. B 4.3.7			
	Step 8- Awareness and training material	PBN Manual, Vol. 1B Ch. B 4.3.8			
	Step 9- Establishing operational implementation date	PBN Manual, Vol. 1B Ch. B 4.3.9			
	Step 10-Post-implementation review	PBN Manual, Vol. 1B Ch. B 4.3.10		DEC 2012	
			Training programmes		

> Training programmes
> RNP approaches with
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