

CONFORMANCE CHECKLIST FOR PERFORMANCE BASED NAVIGATION APPROVAL

INSTRUCTIONS

Print or type. Do not write in shaded areas, these are for CAAV use only. Submit original only to the Flight Safety Standards Department or a CAAV Authorized Person. If additional space is required, use an attachment

1. NAME OF APPLICANT OR HOLDER					2. DATE OF APP	PLICATION 3. AIF			AIRCRAFT M/M/S			
B. CO	Initial Re	equest		Ad	Iditional Request							
	1. RNAV/RNP-10	P-4	9. RNP 0.3				9. RNP 0.3					
	2. RNAV-5			6. RN	P-2]	10. RNP APRCH		
	3. RNAV-2			7. Adv	vanced RNP]	11. RNP-AR-APRC	Н	
	4. RNAV-1]	12, Baro VNAV						
С	C Maintenance Documents					Applicable	No Applic	t able	M	Ianual References Chapter, Paragraph	Acceptable	
1	Relevant parts of the MEL have been requirements (redundancy levels) approperations?	revised t propriate	to r e to	eflect s the inte	ystem ended PBN]				
2	Proposed maintenance program includ requirements prescribed by the manu	des all P facturer	BN	related design	maintenance organization?]				
D	PBN Maintenance Procedures					Applicable	No Applic	t able	M	lanual References Chapter, Paragraph	Acceptable	
1	Procedures for handling and storage of PBN database files including uploads to the aircraft?]				
2	Procedures for operating equipment for (use of, handling and periodic testing)	PBN database]							
3	Procedures for downgrading a non-co	mpliant	airc	craft?]				
4	Procedures for monitoring and reporti	ng of re	peti	itive def	fects?]				
5	Procedures for reporting to FOCA?]				
	Database Integrity Assurance Procedures						Net			Innual Deferences		
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G	PBN Preflight Planning Requirements		Not Applicable	Manual References Chapter, Paragraph	Acceptable
1	Company policy/procedures require that the on-board navigation database, where applicable, must be current and must contain the appropriate procedures, routes, waypoints and NAVAIDS				
2	Company policy/procedures require that a check must be carried out on the availability of appropriate NAVAIDS, including, where appropriate, RNP or RAIM prediction. Any relevant NOTAMs must be addressed				
3	Company policy/procedures require that an alternate approach must be identified in the event of loss of PBN capability				
4	Company policy/procedures require flight crew verification of aeroplane PBN-RNAV/RNP approval for operations planned?				
5	Company policy/procedures require flight crew verification of applicable PBN-RNAV/RNP time limits for the operations planned?				
6	Company policy/procedures require flight crew verification of applicable requirements for GPS (RAIM, FDE)?				
7	Company policy/procedures require that the flight plan should contain the appropriate statements of capability applicable to the PBN operations anticipated during the flight				
н	PBN Preflight Procedures	Applicable	Not Applicable	Manual References Chapter, Paragraph	Acceptable
1	Company policy/procedures require that the appropriate installed equipment must be serviceable?				
2	Company policy/procedures require flight crew verification of NAV database validity/currency?				
3	Company policy/procedures require flight crew external aircraft inspection of navigation system antennas?				
4	Company policy/procedures require flight crew review of technical log regarding possible PBN restrictions?				
5	Company policy/procedures require, if applicable, flight crew uses MEL to assess any maintenance defects that might restrict PBN operations?				
-	Prior to Commencing the PBN Operation				
I	Prior to Commencing the PBN Operation	Applicable	Not Applicable	Manual References Chapter, Paragraph	Acceptable
I 1	Prior to Commencing the PBN Operation Company policy/procedures require that if all the criteria are not met, the PBN procedure must not be requested	Applicable	Not Applicable	Manual References Chapter, Paragraph	Acceptable
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8	Company policy/procedures require that the procedure must be discontinued if there are integrity alerts, if the navigation display is flagged as invalid or if the integrity alerting function is not available				
9	If applicable, Flight crew procedures for use of INS/IRS NAV systems without automatic radio NAV update?				
10	Flight crew procedures for use of GPS?				
к	In Event of a Contingency	Applicable	Not Applicable	Manual References Chapter, Paragraph	Acceptable
1	Company policy/procedures require that ATC must be advised of any loss of PBN capability and a proposed course of action				
2	Contingency procedures applicable to the type of PBN equipment and defined airspace?				
3	Contingency procedures for navigation errors not associated with transitions from an inertial navigation mode to a radio navigation mode				
4	Contingency procedures for unexpected deviations in lateral or vertical flight path attributed to incorrect navigation data				
5	Contingency procedures for significant misleading information without failure warning				
6	Contingency procedures for total loss or multiple failures of the PBN navigation equipment				
7	Contingency procedures for problems with ground navigation facilities leading to significant navigation errors				
8	Contingency procedures for a communications failure				
9	Flight crew guidance for reversion to and use of other NAV aids in case of PBN failure?				
L	After-Flight Procedures	Applicable	Not Applicable	Manual References Chapter, Paragraph	Acceptable
1	Company policy/procedures require that the required reporting of navigation errors or malfunctions should be completed as applicable				
М	PBN Training: Flight Crew	Applicable	Not Applicable	Manual References Chapter, Paragraph	Acceptable
1	Qualification requirements for flight crews for PBN operations?				
2	Training program requiring initial and recurrent training for flight crew tasks and decisions in PBN operations?				
3	Flight crew training curriculums which include PBN training modules with subject elements and minimum events?				
4	Procedures for PBN qualification under supervision with CAAV designated representative or qualified crew member as applicable?				
5	Procedures for re-establishing flight crew PBN qualification / currency after a defined period of in-activity?				
N	PBN Ground Training Elements: Flight Crew	Applicable	Not Applicable	Manual References Chapter, Paragraph	Acceptable
1	Area navigation principles. Area navigation is the basis for all PBN operations, and the same general knowledge is applicable to all navigation specifications. Pilots with previous experience with area navigation operations may not be familiar with some of the more advanced features such as radius to fix (RF) legs, fixed radius transitions, required time of arrival or the application of vertical navigation				
2	<i>Navigation system principles.</i> Flight crews should have a sound knowledge of the navigation system to be used. The relevance of the navigation system to the particular PBN operation should be clearly established. For example, knowledge of inertial navigation and updating is relevant to requirements for some oceanic and remote navigation specifications, as is knowledge of GNSS for RNP APCH operations				
3	<i>Equipment operation and functionality.</i> Considerable variation exists in the operation of navigation equipment, cockpit controls, displays and functionality. Crews with experience on one type of installation or aircraft may require additional training on another type of equipment. Special attention should be paid to the differences between stand-alone GNSS equipment and flight management systems with GNSS updating and degraded modes of operation such as loss of integrity or loss of GNSS				
4	<i>Flight planning.</i> Knowledge of the relevant aspects of each of the navigation specifications that relate to flight planning is required				
1	Operating precedures. The complexity of experiting precedures varies				

	considerably between different PBN operations. RNP APCH and RNP AR APCH require a detailed knowledge of standard operating procedures for both normal and non-normal operations				
6	<i>Operating limitations.</i> Operating limitations (e.g. time limits, minimum equipment) vary both between and within the navigation specifications, and flight crews need to be able to recognize this and plan accordingly. Alternative means of navigation or other contingency procedures must be addressed. Flight crews need to be aware of the ATC procedures that may be applicable to the particular PBN operation				
0	PBN Flight Training Elements: Flight Crew	Applicable	Not Applicable	Manual References Chapter, Paragraph	Acceptable
1	<i>En-route (oceanic, remote and continental).</i> In general flight training is not required for en-route operations.				
2	Arrival and departure. Because arrival and departure operations require strict adherence to track during periods of higher workload and may be associated with minimum terrain clearance and reduced route spacing, crews need to be fully conversant with the operation of the navigation system. Consequently, unless crews have significant appropriate operational experience, simulator or flight training must be provided. Particular care should be taken when this type of operation is conducted with stand-alone GNSS equipment where functional limitations require crew intervention.				
3	RNP APCH operations training using stand-alone GNSS equipment, particularly in a single- pilot aircraft, normally requires multiple in-flight exercises, each with preflight and post-flight briefing.				
4	Considerable attention should be given to the programming and management of the navigation system, including in-flight re-programming, holding, multiple approaches, mode selection and recognition, human factors and the navigation system functionality				
5	Approaches conducted in FMS-equipped aircraft are generally much easier to manage because the aircraft are usually equipped with map displays which aid situational awareness.				
6	Additional training should be provided to ensure familiarity and competency in operations which involve changes to the planned approach, system alerting and missed approaches.				
7	Attention should also be given to the method of vertical navigation to LNAV minima, to LNAV/VNAV minima and to LPV minima				
8	RNP AR APCH operations require that all aspects of the operation are carefully addressed and appropriate attention is given to training. The safety of the RNP AR operation is often predicated upon the fact that the crew procedures provide a significant mitigation for a number of the hazards associated with the procedure. However, mitigations vary widely depending upon the cockpit displays and the RNP system functionality.				
9	RNP AR APCH operations require that all aspects of the operation are carefully addressed and appropriate attention is given to training. The safety of the RNP AR operation is often predicated upon the fact that the crew procedures provide a significant mitigation for a number of the hazards associated with the procedure. However, mitigations vary widely depending upon the cockpit displays and the RNP system functionality.				
Р	PBN Training: Ground Personnel	Applicable	Not Applicable	Manual References Chapter, Paragraph	Acceptable
1	Qualification requirements for flight dispatchers and other persons supporting PBN operations?				
2	Training program for ground staff requiring initial and recurrent training for tasks supporting PBN operations?				
3	Training curriculums for ground staff which include PBN training modules with subject elements and minimum events?				
Q	PBN Training: Maintenance Personnel	Applicable	Not Applicable	Manual References Chapter, Paragraph	Acceptable
1	Qualification requirements for maintenance personnel supporting PBN operations?				
2	Training program requiring initial and recurrent training for maintenance personnel for tasks supporting PBN operations?				
3	Training curriculums for maintenance personnel which include PBN training modules with subject elements and minimum events?				