

CONDUCT BASIC-RNP 1 INSPECTION

DSA.AOC.CHKL.085



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OPERATOR'S NAME:		LOCATION :	
CHECK BY :	CHECK DATE :	SIGNATURE :	

Regulatory references:

- Arrêté N°00606/MINT du 13 septembre 2006 modifiant l'annexe de l'arrêté N°00731/MINT du 07 juin 2005 fixant les conditions d'utilisation des avions par une entreprise de transport aérien.
- ICAO PBN Manual (DOC9613).
- Cameroonian PBN Operational Approval Handbook.

Item and N°	Title of document	Indication of inclusion by the operator	State of implementations	Comments by the Inspector
SECTION 1 – OPERATOR APPLICATION				
1	Airworthiness documents showing aircraft eligibility for Basic-RNP 1. AFM, AFM revision, AFM supplement, or Type certificate data sheet (TCDS) showing		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	

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SECTION 1 – OPERATOR APPLICATION				
	<p>that the RNP navigation system is eligible for Basic-RNP 1 or less.</p> <p>or</p> <p>Manufacturer statement - Aircraft with a manufacturer statement documenting compliance with the performance and functional requirements of the ICAO PBN Manual.</p>			
2	<p>Aircraft modified to meet Basic-RNP 1 standards.</p> <p>Documentation on aircraft inspection and/or modification, if applicable.</p> <p>Maintenance records documenting the installation or modification of aircraft systems</p>		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	

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SECTION 1 – OPERATOR APPLICATION				
3	<p>Maintenance program</p> <ul style="list-style-type: none"> For aircraft with established maintenance procedures for Basic-RNP 1 systems, the list of references of the document or program. For recently installed Basic-RNP 1 systems, the maintenance procedures for their review. 		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
4	<p>Minimum equipment list (MEL) if applicable showing provisions for Basic-RNP 1 systems.</p>		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
5	<p>Operating policies and procedures including relevant section of Operations Manuals and checklists attached to the application, applicable to</p>		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	

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SECTION 1 – OPERATOR APPLICATION				
	Basic RNP 1			
6	Training Training program for flight crews, flight dispatchers, and maintenance personnel as applicable.		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
7	Navigation database Details of the navigation data validation program.		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	

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Item and N°	Topics	Reference paragraphs ICAO Doc 9613 Vol II Part C 1	Location in the Documents of the operator	State of Implementation	Comments
SECTION 2- GUIDE FOR DETERMINING BASIC – RNP 1 AIRCRAFT ELIGIBILITY					
1	Aircraft and system requirements – one of the following: Aircraft with E/TSO-C129a GNSS sensor (Class B or C) installed in an FMS Aircraft with E/TSO-C145 () GNSS sensor installed in an FMS Aircraft with E/TSO-C129a Class A1 system or E/TSO-C146 () stand-alone GNSS system Aircraft with RNP capability certified or approved with equivalent standards.	3.3.3 a) 3.3.3 a) 3.3.3 b) 3.3.3 c)		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet <input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet <input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet <input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	



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SECTION 2- GUIDE FOR DETERMINING BASIC – RNP 1 AIRCRAFT ELIGIBILITY					
	Positioning data from other types of navigation sensors can be integrated with GNSS data provided they do not cause position errors that exceed the total system error (TSE)). Otherwise, means must be provided to deselect or cancel the other types of navigation sensors.	3.3.3.2		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
2	Aircraft and System eligibility for Basic-RNP 1 operations			<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	Aircraft with an approved statement of compliance	3.3.2.4		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	Aircraft with a statement by the manufacturer	3.3.2.4			
	Modified aircraft	3.3.2.4			



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SECTION 2-- GUIDE FOR DETERMINING BASIC – RNP 1 AIRCRAFT ELIGIBILITY					
3	Functional requirements Note: Aircraft with RNAV 1 and RNAV 2 approval or equivalent (e.g. P-RNAV and FAA AC 90-100) based on GNSS capability meet the functional requirements of this AC for Basic-RNP 1 operations.	3.3.3			

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Item	Operating Procedures	Reference paragraphs ICAO Doc 9613 Vol II Part C 3	Location in the Documents of the operator	State of implementation	Comments
SECTION 3 - PROCEDURES FOR BASIC - RNP 1 OPERATIONS					
1	Pre-flight planning				
	File appropriate flight plan suffix	3.3.4.1.1		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	Ensure on-board navigation data current and appropriate for the region of intended operation	3.3.4.1.2		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	Use all the information available, to confirm the availability of the required navigation infrastructure for the projected routes, including any non-RNAV contingency, for the intended operation.	3.3.4.1.3		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	Check GNSS integrity prediction	3.3.4.2		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
2	General operating procedures				



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	SECTION 3 - PROCEDURES FOR BASIC - RNP 1 OPERATIONS				
	Operator procedures comply with any instruction or procedure identified by the manufacturer, as necessary, to meet the performance requirements of this section.	3.3.4.3.1		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	Operator procedures to ensure flight crew do not request, or file a flight plan for RNP 1 routes unless they meet all the criteria in the relevant State documents.	3.3.4.3.2		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	At system initialization, pilots must: a) confirm the validity of the navigation database; b) verify the current position of the aircraft; c) verify the proper entry of the assigned ATC route once the initial	3.3.4.3.3		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	





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SECTION 3 - PROCEDURES FOR BASIC - RNP 1 OPERATIONS					
	clearance is received, and of any subsequent route changes; and d) Ensure that the WPT sequence displayed on the navigation system coincides with the route shown in the appropriate charts and with the assigned route.				
	Operator procedures to ensure a basic RNP 1 SID/STARs is retrieved from the on-board navigation database using the procedure name, is consistent with the charted procedure and only modified as outlined in the PBN Manual .	3.3.4.3.4		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	Operator procedures for verifying navigation system text display.	3.3.4.3.5		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	Operator procedures for confirming reasonableness of navigation.	3.3.4.3.6		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant	

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	SECTION 3 - PROCEDURES FOR BASIC - RNP 1 OPERATIONS				
				<input type="checkbox"/> Sans objet	
	For Basic-RNP 1 routes procedures requiring the use of a lateral deviation indicator, flight director or autopilot in lateral navigation mode	3.3.4.3.7		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	Operator procedures for limiting FTE to +/- 1/2 navigation accuracy	3.3.4.3.8		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	Operator procedures for rejoining route following ATC course assignment	3.3.4.3.9			
	Operator procedures for setting bank angle limitations.	3.3.4.3.10			
3	Aircraft with RNP selection capability				
	Pilots of aircraft capable of selecting RNP input must select RNP 1 or lower for Basic-RNP 1 SIDs, STARs or procedures.	3.3.4.4			
4	Basic-RNP 1 SID specific				

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SECTION 3 - PROCEDURES FOR BASIC - RNP 1 OPERATIONS					
	requirements				
	Operator procedures for determining system availability and pre-departure setup	3.3.4.5.1			
	Operator procedures/requirement for equipment use to ensure meeting basic RNP 1 performance	3.3.4.5.3			
	GNSS requirements for acquiring signal and flight plan loading to ensure the appropriate navigation system monitoring and sensitivity	3.3.4.5.4			
	Procedures for setting lateral deviation display scale for aircraft using a lateral deviation display (e.g., a navigation map display), and use of FD or autopilot	3.3.4.5.5			





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SECTION 3 - PROCEDURES FOR BASIC - RNP 1 OPERATIONS					
5	Basic-RNP 1 STAR specific requirements				
	Operator procedures for loading/checking route	3.3.4.6.1			
	Operator procedures related to restriction on waypoint creation.	3.3.4.6.2			
	Operator procedures for contingency procedures to revert to a conventional arrival route (where required).	3.3.4.6.3			
	Operator procedures for accepting radar headings or "direct to" tracking	3.3.4.6.4			
	Operator procedures for verifying system operation and selection of procedures	3.3.4.6.5			
	Operator procedures for observing published altitude and speed constraints.	3.3.4.6.6			



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	SECTION 3 - PROCEDURES FOR BASIC - RNP 1 OPERATIONS				
	For aircraft using stand-alone GNSS systems, operator procedures/requirements for equipment setup/flight planning to ensure basic RNP 1 lateral deviation display scale sensitivity	3.3.4.6.7			
6	Contingency procedures				
	Operator contingency procedures for loss of navigation capability	3.3.4.7.1			