



1. Regulations 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 (§7.3.2)

2. CCAA Forms/Checklists

2.1. Forms

- CMR.OPS.FORM.020 Information on the identification of aircraft and operator (RNP APCH (LNAV)).

2.2. Checklists

- DSA.OPS.CHKL.086 Conduct RNP APCH (LNAV) Approval

3. Guidance Material References:

- ICAO PBN Manual (DOC9613) Volume II, Part C, Chapter 5.
- Cameroonian PBN Operational Approval Handbook

4. Jobs Task Description

- 4.1. To give operators and inspectors information on the main RNP APCH reference documents.
- 4.2. To provide tables showing the contents of the application, the associated reference paragraphs, the place in the application of the operator where RNP APCH elements are mentioned and columns for inspector comments and follow-up on the status of various elements of RNP APCH.

5. Job Performance Subtasks

- 5.1. At the pre-application meeting with the operator, the inspector reviews the "basic events of the RNP APCH approval process" described in Section 1 of this Job Aid, in order to provide an overview of the approval process events.
- 5.2. The inspector reviews this Job Aid with the operator in order to establish the form and content of the RNP APCH approval application.

JOB TASK ANALYSIS

OPS 3.020: To Conduct RNP APCH (LNAV) Approval



CCAA

- 5.3. The operator uses this Job Aid as a guide to collect the documents of the RNP APCH application.
- 5.4. The operator inserts in the Job Aid references showing in what part of its documents are the RNP APCH elements located.
- 5.5. The operator submits the Job Aid and the application to the inspector (with the required documents).
- 5.6. The inspector indicates in the Job Aid whether an item is in compliance or needs corrective action.
- 5.7. The inspector informs the operator as soon as possible when a corrective action by the operator is required.
- 5.8. The operator provides the inspector with the revised material when so requested.
- 5.9. The CCAA provides the operator with the operational specification (air operators) or a letter of authorization (others), as applicable, when the tasks and documents have been completed.

INFORMATION ON THE IDENTIFICATION OF AIRCRAFT AND
OPERATORS RNP APCH (LNAV)

CMR.OPS.FORM.020



NAME OF THE OPERATOR: _____
is applying for RNP APCH (LNAV) Operations Approval.

Aircraft manufacturer, model, and series	Aircraft Registration (required only if installed equipment varies between model and series)	List relevant make and model of related navigation equipment

DATE OF PRE-APPLICATION MEETING _____

DATE ON WHICH THE APPLICATION WAS RECEIVED _____

DATE ON WHICH THE OPERATOR INTENDS TO BEGIN RNP APCH (LNAV) OPERATIONS

CONDUCT RNP APCH (LNAV) INSPECTION

DSA.AOC.CHKL.086



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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 RNP APCH. AFM, AFM revision, AFM supplement, or Type certificate data sheet (TCDS) showing that		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	

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Item and N°	Title of document	Indication of inclusion by the operator	State of implementations	Comments by the Inspector
SECTION 1 – OPERATOR APPLICATION				
2	<p>the RNP navigation system is eligible for RNP APCH. or; Manufacturer statement. - Aircraft with a manufacturer statement documenting compliance</p> <p>Aircraft modified to meet RNP APCH standards. Documentation on aircraft inspection and/or modification, if applicable. Maintenance records documenting the installation or modification of aircraft systems</p>		<p><input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet</p>	
3	<p>Maintenance program</p> <ul style="list-style-type: none"> For aircraft with established maintenance procedures for RNP APCH systems, the list of references of the document or program. 		<p><input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet</p>	

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Item and N°	Title of document	Indication of inclusion by the operator	State of implementations	Comments by the Inspector
SECTION 1 – OPERATOR APPLICATION				
	<ul style="list-style-type: none"> For recently installed RNP APCH systems, the maintenance procedures for their review. 			
4	Minimum equipment list (MEL) if applicable showing provisions for RNP APCH systems.		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
5	Training Training programme for flight crews, flight dispatchers, and maintenance personnel as applicable.		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
6	Operating policies and procedures Operations manual (OM) and checklists or sections to be attached to the application, corresponding to RNP APCH operating procedures and policies.		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	

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Item and N°	Title of document	Indication of inclusion by the operator	State of implementations	Comments by the Inspector
SECTION 1 – OPERATOR APPLICATION				
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 RNP APCH AIRCRAFT ELIGIBILITY					
1	Aircraft and system requirements			<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	Aircraft approved to conduct RNAV (GNSS) approaches.			<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	Aircraft that have a statement of compliance in their flight manual (AFM), AFM supplement, pilot operations handbook (POH), or in the avionics operating manual.	5.3.2.4		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	RNP installation based on GNSS standalone system	5.3.3.1, Note 3		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	RNP installation is based on GNSS sensor equipment used in a multi-sensor system	5.3.3.1, Note 3		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	Positioning data from other types of navigation sensors can be integrated	5.3.3.2		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant	





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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 RNP APCH AIRCRAFT ELIGIBILITY					
	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.			<input type="checkbox"/> Sans objet	
	Functional requirements	5.3.3.3		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	

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Item	Operating Procedures	Reference paragraphs ICAO Doc 9613 Vol II Part C 5	Location in the Documents of the operator	State of implementation	Comments
SECTION 3 - PROCEDURES FOR RNP APCH OPERATIONS					
1	Pre-flight planning				
	File appropriate flight plan suffix	5.3.4.1.1		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	Ensure that the approaches which may be used for the intended flight (including alternate aerodromes): a) are selected from a valid navigation data base (current AIRAC cycle); b) have been verified through an appropriate (navigation database integrity process); and c) have not been prohibited by any NOTAM issued by the CCAA or by the air navigation service providers or by an operational instruction of the company	5.3.4.1.2 a)		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	Ensure that there are sufficient means	5.3.4.1.2 b)		<input type="checkbox"/> Satisfaisant	





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Item	Operating Procedures	Reference paragraphs ICAO Doc 9613 Vol II Part C 5	Location in the Documents of the operator	State of implementation	Comments
SECTION 3 - PROCEDURES FOR RNP APCH OPERATIONS					
	available to fly and land at the destination or alternate aerodrome in case of loss of RNP APCH capability.			<input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	Take account of any NOTAM issued by the CCAA or by the ANSP, or by an operational instruction of the company that might adversely affect aircraft system operation or the availability or suitability of the procedures at the destination aerodrome or at any alternate aerodromes.	5.3.4.1.2 c)		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	For missed approach procedures based on conventional NAVAIDs (VOR, NDB), verify that the appropriate airborne equipment required to fly such procedures is installed and operational in the aircraft.	5.3.4.1.2 d)			





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Item	Operating Procedures	Reference paragraphs ICAO Doc 9613 Vol II Part C 5	Location in the Documents of the operator	State of implementation	Comments
	SECTION 3 - PROCEDURES FOR RNP APCH OPERATIONS				
	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.	5.3.4.1.3		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	Check GNSS integrity prediction	5.3.4.1.3		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
2	Prior to commencing the procedure			<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	In addition to normal procedures, prior to commencing the approach (before the initial approach fix (IAF)), the flight crew must verify the correct procedure has been loaded, by comparing said procedure with the approach charts. This check must include:	5.3.4.3.1		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	



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Item	Operating Procedures	Reference paragraphs ICAO Doc 9613 Vol II Part C 5	Location in the Documents of the operator	State of implementation	Comments
	SECTION 3 - PROCEDURES FOR RNP APCH OPERATIONS				
	a) the WPT sequence; b) the integrity of the tracks and distances of the approach legs, the accuracy of the inbound course and the length of the final approach segment.				
	For multi-sensor systems, verify during the approach that a GNSS sensor is used for position computation.	5.3.4.3.3		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	For a RNP system with aircraft-based augmentation system (ABAS) requiring barometric aiding, set the current aerodrome barometric altimeter	5.3.4.3.4		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	Check GNSS availability	5.3.4.3.5		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant <input type="checkbox"/> Sans objet	
	Operator procedures for rejoining	5.3.4.3.6		<input type="checkbox"/> Satisfaisant <input type="checkbox"/> Non satisfaisant	



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Item	Operating Procedures	Reference paragraphs ICAO Doc 9613 Vol II Part C 5	Location in the Documents of the operator	State of implementation	Comments
	SECTION 3 - PROCEDURES FOR RNP APCH OPERATIONS				
	route following ATC course assignment			<input type="checkbox"/> Sans objet	
	Operator procedures to prohibit revision of lateral definition of the flight path between the FAF and the missed approach point (MAPt).	5.3.4.3.7			
3	During the procedure				
	Establish aircraft on course prior to FAF	5.3.4.4.1			
	Check appropriate approach mode active prior to FAF.	5.3.4.4.2			
	Select appropriate displays so that the following information can be monitored by the flight crew: a) the RNP computed desired track (DTK); and b) the aircraft position relative to the path cross track deviation (XTK) for FTE	5.3.4.4.3			

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Item	Operating Procedures	Reference paragraphs ICAO Doc 9613 Vol II Part C 5	Location in the Documents of the operator	State of implementation	Comments
SECTION 3 - PROCEDURES FOR RNP APCH OPERATIONS					
	monitoring.				
	Discontinue approach: a) if the navigation display is announcing a failure (flagged invalid); or b) in case of loss of the integrity alerting function; or c) if the integrity alerting function is annunciated not available before passing the FAF; or d) if the FTE is excessive.	5.3.4.4.4			
	Missed approach must be flown in accordance with the published procedure. Use of the RNP system during the missed approach provided: a) the RNP system is operational (e.g., there is no loss of function, no NSE alert, no	5.3.4.4.5			



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	SECTION 3 - PROCEDURES FOR RNP APCH OPERATIONS				
	failure indication, etc.). b) the whole procedure (including the missed approach) is loaded from the navigation data base.				
	Operator procedures for limiting FTE to +/- ½ navigation accuracy	5.3.4.4.6			
	Operator procedures for limiting vertical deviations within + 100/-50 ft when Baro-VNAV is used for vertical path guidance during the final approach segment	5.3.4.4.7			
	Operator procedures for the conduct of a missed approach if the lateral or vertical deviations are excessive	5.3.4.4.8			



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Item	Operating Procedures	Reference paragraphs ICAO Doc 9613 Vol II Part C 5	Location in the Documents of the operator	State of implementation	Comments
SECTION 3 - PROCEDURES FOR RNP APCH OPERATIONS					
4	Contingency procedures				
	Notify ATC of any loss of the RNP APCH capability, together with the proposed course of action.	5.3.4.6.1			
	Operator contingency procedures in order to react safely following the loss of the RNP APCH capability during the approach.	5.3.4.6.1			





1. Regulations References

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2. CCAA Forms/Checklists

2.1. Forms

- CMR.OPS.FORM.021 Information on the identification of aircraft and operator (APV/Baro – VNAV).

2.2. Checklists

- DSA.OPS.CHKL.087 Conduct APV/Baro – VNAV Approval

3. Guidance Material References:

- ICAO PBN Manual (DOC9613) Volume II.
- Cameroonian PBN Operational Approval Handbook

4. Jobs Task Description

- 4.1. To give operators and inspectors information on the main APV/Baro-VNAV reference documents.
- 4.2. To provide tables showing the contents of the application, the associated reference paragraphs, the place in the application of the operator where APV/Baro-VNAV elements are mentioned and columns for inspector comments and follow-up on the status of various elements of APV/Baro-VNAV.

5. Job Performance Subtasks

- 5.1. At the pre-application meeting with the operator, the inspector reviews the “basic events of the APV/Baro-VNAV approval process” described in Section 1 of this Job Aid, in order to provide an overview of the approval process events.
- 5.2. The inspector reviews this Job Aid with the operator in order to establish the form and content of the APV/Baro-VNAV approval application.



JOB TASK ANALYSIS

OPS 3.021: To Conduct APV/Baro - VNAV Approval



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- 5.3. The operator uses this Job Aid as a guide to collect the documents of the APV/Baro-VNAV application.
- 5.4. The operator inserts in the Job Aid references showing in what part of its documents are the APV/Baro-VNAV elements located.
- 5.5. The operator submits the Job Aid and the application to the inspector (with the required documents).
- 5.6. The inspector indicates in the Job Aid whether an item is in compliance or needs corrective action.
- 5.7. The inspector informs the operator as soon as possible when a corrective action by the operator is required.
- 5.8. The operator provides the inspector with the revised material when so requested.
- 5.9. The CCAA provides the operator with the operational specification (air operators) or a letter of authorization (others), as applicable, when the tasks and documents have been completed.

INFORMATION ON THE IDENTIFICATION OF AIRCRAFT AND OPERATORS (APV/Baro-VNAV)

CMR.OPS.FORM.021



NAME OF THE OPERATOR: _____

is applying for APV/BARO-VNAV Operations Approval.

Aircraft manufacturer, model, and series	Aircraft Registration (required only if installed equipment varies between model and series)	List relevant make and model of related navigation equipment

DATE OF PRE-APPLICATION MEETING _____

DATE ON WHICH THE APPLICATION WAS RECEIVED _____

DATE ON WHICH THE OPERATOR INTENDS TO BEGIN APV/BARO-VNAV OPERATIONS _____