

RNP 2 OPERATIONS

FSS-OPS- FORM 128: APPLICATION AND JOB AID

1. Introduction

This Job Aid was developed to provide operators and inspectors with guidance on the process to be followed by an operator in order to obtain an RNP approval. It shall be used for application by the operator and as an aid for the approval process by the inspector. Reference should be made to advisory pamphlets FSS-AOC-AP 120 and FSS-AOC-AP 128. The applicant may also use the ICAO PBN Manual (DOC9613) for guidance as required.

2. Purpose of the Job Aid

- 2.1 To be used by operators for the relevant PBN application.
- 2.2 To provide guidance on the contents of the application, the associated reference paragraphs, as well as a systematic system for application by the operator.
- 2.3 To provide the inspectors with a checklist/job aid including columns for comments and follow-up on the status of various application elements.

3. Actions Recommended for the Inspector and Operator

- 3.1 At the pre-application meeting with the operator, the inspector reviews the “basic events of the RNAV 5 approval process” described in this Job Aid, in order to provide an overview of the approval process events.
- 3.2 The inspector reviews this Job Aid with the operator in order to establish the form and content of the RNAV 5 approval application.
- 3.3 The operator collects the documents/annexes required for the application and completes the Job Aid references. The operator uses this Job Aid as a guide to collect the documents/annexes of the RNAV 5 application.
- 3.4 The operator inserts in the Job Aid references showing in what part of its documents are the RNAV 5 programme elements located.
- 3.5 The operator submits the Job Aid and the application to the inspector (documents/annexes).
- 3.6 The inspector indicates in the Job Aid whether an item is in compliance or needs corrective action.
- 3.7 The inspector informs the operator as soon as possible when a corrective action by the operator is required.
- 3.8 The operator provides the inspector with the revised material when so requested.
- 3.9 The CAA provides the operator with the operational specifications (OpSpecs) or a letter of authorisation (LOA), as applicable, when the tasks and documents have been completed.

4. **Main reference documents**

Reference Document	Title
Namibia DCA-005/2014	Operational Directive – Performance Based Navigation for Air Operators
Namibia FSS-AOC-AP 120	PBN Approval General Information
Namibia FSS-AOC-AP 128	RNP 2 Operations Approval Process
<i>Other Documents</i>	
ICAO Doc 9613	Performance based navigation (PBN) manual
ICAO Doc 9997	PBN Operational Approval Manual
FAA AC 90-105	Qualification criteria for RNP 2 operations
EASA AMC 20-5	Airworthiness approval and operational criteria for the use of the NAVSTAR Global positioning system (GPS)
TSO-C129a	Airborne supplemental navigation equipment using the global positioning system (GPS)
TSO-C145, TSO-C146, and TSO-C129	GPS TSOs

PART 1 - GENERAL INFORMATION BASIC EVENTS OF THE APPROVAL PROCESS

	Action by Operator	Action by Inspector
1	Establish the need for the authorization	
2	Review the AFM, AFM supplement, TC data sheet, other appropriate documents (e.g. STCs, SBs, SLs) to determine aircraft eligibility. If necessary contact the aircraft and/or avionics OEM to confirm eligibility ¹ .	
3	Schedule a pre-application meeting with the inspector.	
4		<p>During the pre-application meeting establish:</p> <ul style="list-style-type: none"> ✓ form and contents of the application; ✓ documents required to support the application; ✓ target date for the application submission; ✓ requirement for flight validation.
5	Submit the application at least 90 days prior to startup of the planned operations.	
6		Review submission.
7	Ensure that amendments to manuals, programmes and other relevant documents are complete; provide training to flight crews, flight dispatchers and maintenance personnel; if required, conduct a validation flight.	If required, participate in the validation flight.
8		Once the requirements have been met, issue operational approval.

PART 2 - INFORMATION ON THE IDENTIFICATION OF AIRCRAFT AND NAVIGATION SYSTEM

NAME OF THE OPERATOR: _____ is applying for **RNP 2** approval

Aircraft manufacturer, model, and series	Registration numbers	Aircraft Serial numbers	Area navigation (LRNS) system and manufacturer	Model and serial number

DATE OF PRE-APPLICATION MEETING _____

DATE APPLICATION WAS RECEIVED _____

DATE OPERATOR INTENDS TO BEGIN RNP 2 OPERATIONS _____

SIGNATURE BY RESPONSIBLE POST HOLDER _____

NAME OF RESPONSIBLE POST HOLDER _____

Note: Application should be made 90 days before date of intended commencement of operations

PART 3 – OPERATOR APPLICATION DOCUMENTS

Item No.	Title of Annex/Document	Indication of inclusion by the operator	Comments by the Inspector
1.	Operator letter requesting RNP 2 authorization		
2.	<p>Airworthiness documents showing aircraft eligibility for RNP 2.</p> <p>AFM, AFM revision, AFM supplement, or Type certificate data sheet (TCDS) showing RNP 2 system eligibility , or</p> <p>Statement by the manufacturer, or</p> <p>Aircraft modification documentation</p>		
3.	<p>Maintenance practices</p> <p>The list of references of the document or programme.</p>		
4.	<p>Minimum equipment list (MEL) (for operators conducting operations based on a MEL):</p> <p>Updated MEL showing provisions for required RNP 2 systems.</p>		
5.	<p>Training</p> <p>1. Part 91 operators or equivalent: Training method: Details of Course completion.</p> <p>2. Part 121 and/or 135 operators or equivalent: Details of Training programmes (training curricula) for flight crews, flight dispatchers and maintenance personnel as applicable.</p>		
6.	<p>Operating policies and procedures</p> <p>1. Part 91 operators or equivalent: Applicable extracts from Operations manual (OM) or other documentation corresponding to RNP 2 operating procedures and policies.</p> <p>2. Part 121 and/or 135 operators or equivalent: Operations manual and checklists.</p>		
7.	<p>Navigation database</p> <p>Details of the navigation data validation including installation of new databases</p>		

Note 1: Documents may be grouped in a single folder or may be sent as individual documents.

PART 4 – RNP 2 OPERATING PROCEDURES

Item	Operating Procedures	Advisory Pamphlet Reference (Doc 9613, Volume II, Part C, Chapter 2)	Operator's documents reference Insert N/A where not applicable	Comments by the Inspector (Include follow-up and dates)
	Aircraft Eligibility	2.3.2.2		
1.	Documents that establish eligibility (see Part 3 above)			
	Flight Planning	2.3.4.2		
2.	Verification that aircraft has been approved for RNP 2 operations.			
3.	Verification of RAIM availability			
4.	Verification navigation database is current and appropriate for the region.			
5.	Verification requirement to insert the letter "R" in item 10 and PBN/O1 to O4 as appropriate in item 18 of the ICAO flight plan.			
6.	Verification of any operational restriction related to RNP 2 approval as appropriate.			
	General Operating Procedures	2.3.4.4		
7.	Comply with the manufacturer's instructions/procedures.			
8.	Advise ATC if unable to comply with the requirements for RNP 2.			
9.	Verify aircraft position and entry of assigned route.			
10.	Retrieve RNP 2 route from the database or build route using waypoints from the database.			

Item	Operating Procedures	Advisory Pamphlet Reference (Doc 9613, Volume II, Part C, Chapter 2)	Operator's documents reference Insert N/A where not applicable	Comments by the Inspector (Include follow-up and dates)
11.	Cross-check the chart with the RNAV system display.			
12.	Use an appropriate display.			
13.	Use appropriate scaling.			
14.	Follow route centre line within 1 NM.			
15.	Do not use bank limiting functions.			
16.	Do not modify the flight plan in the RNAV system after ATC heading assignment until a clearance is received to re-join the route or a new clearance is confirmed.			
17.	If RNP input is required, select RNP 2 or lower.			
	Contingency Procedures	2.3.4.5		
18.	Operator contingency procedures for loss of navigation capability including reverting to a conventional departure or arrival route.			
19.	Advising ATC if unable to comply with the requirements for RNP 2.			
20.	Training Programmes that meet RNP 2 requirements	2.3.2.3 and 2.3.5		
21.	Details of courses completed (Part 91 operators). Details of training			

Item	Operating Procedures	Advisory Pamphlet Reference (Doc 9613, Volume II, Part C, Chapter 2)	Operator's documents reference Insert N/A where not applicable	Comments by the Inspector (Include follow-up and dates)
	programmes (Part 121 and 135 operators).			
22.	Navigation Database Procedures Documented procedures (in maintenance manual) for management of Nav data including procedures for maintaining AIRAC cycle currency, checking for errors and reporting errors to the navigation database supplier;	FSS-OPS-AP 120 Para 11; FSS-AOC-AP 120 Appendix 2		

FOR OFFICIAL USE ONLY

Recommendation/observation (FOPS):

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AIR Inspector's Name & ASI #

Signature

Date

FOPS Inspector's Name & ASI #

Signature

Date

SUBDIVISION CHIEF'S REMARKS:

The above requirements have been evaluated against the operator submissions and is hereby **approved / not approved.**

Signature / Date: