



Application for RNAV approval

- Applicability:** B-RNAV operations under IFR in European Airspace designated for B-RNAV i.a.w. JAA ACJ 20X4 and ICAO Doc 7030/4.
P-RNAV operations under IFR in terminal airspace within European region i.a.w. JAA GEN TGL No. 10.
RNP-4/RNP-10 operations in accordance with ICAO Doc 7030/4 and FAA Order 8400.12A.
NAT-MNPS operations in accordance with ICAO Doc 7030/4 (NAT/RAC).
- Completion of form:** Each relevant box should be completed with a tick (✓) or a (X). Items marked with an asterisk (*) to be completed only for first aeroplane of each aeroplane type / model in operator's fleet. Where form must be completed by referring to a document of applicant's documentation system, add manual reference, chapter and sub-chapter. Please ensure all applicable areas are completed.
- Application:** Applications for RNAV approval shall be made using AACK-DSF/AOC-Form 1 and AACK-DSF/OPS F-2.
Submit forms and application package referenced in paragraph 4 of RNAV application form to:

**Civil Aviation Authority of Kosovo
Flight Safety Department (FSD)
Peyton Place
Sejdi Kryeziu Street No. 3-5
10000 Prishtina
Republic of Kosovo**

1. GENERAL

General Information			
1.	Applicant:		
2.	Aeroplane Registration:		
3.	Aeroplane Manufacturer:		
4.	Aeroplane Type Designation / Model Designation:		
5.	Serial No.:		
Scope of Application		Yes	No
6.	Application for B-RNAV IFR en-route operations?	<input type="checkbox"/>	<input type="checkbox"/>
7.	Application for B-RNAV IFR terminal operations?	<input type="checkbox"/>	<input type="checkbox"/>
8.	Application for B-RNAV IFR overlay approach operations?	<input type="checkbox"/>	<input type="checkbox"/>
9.	Application for P-RNAV IFR terminal operations?	<input type="checkbox"/>	<input type="checkbox"/>
10.	Application for RNP-10 operations in SAM/RAC airspace?	<input type="checkbox"/>	<input type="checkbox"/>
11.	Application for RNP-10 operations in PAC/RAC airspace?	<input type="checkbox"/>	<input type="checkbox"/>
12.	Application for RNP-10 operations in MID/ASIA/RAC airspace?	<input type="checkbox"/>	<input type="checkbox"/>
13.	Application for RNP-10 operations in CEPAC airspace?	<input type="checkbox"/>	<input type="checkbox"/>
14.	Application for RNP-10 operations in NOPAC airspace?	<input type="checkbox"/>	<input type="checkbox"/>
15.	Application for unlimited NAT-MNPS operations?	<input type="checkbox"/>	<input type="checkbox"/>
16.	Application for special NAT-MNPS routes?	<input type="checkbox"/>	<input type="checkbox"/>
17.	other:	<input type="checkbox"/>	<input type="checkbox"/>
18.	Initial request for RNAV approval for aeroplane type / model referenced in 1.4?	<input type="checkbox"/>	<input type="checkbox"/>

2. AIRWORTHINESS

Type Design Approval for referenced Aeroplane Type Designation		
1.	The RNAV type design approval is reflected in: <input type="checkbox"/> AFM <input type="checkbox"/> AFM Supplements <input type="checkbox"/> Type Certification Data Sheet <input type="checkbox"/> Supplemental Type Certificate <input type="checkbox"/> other:	
		Yes No
2.	Is aeroplane position automatically determined from VOR/DME sensors?	<input type="checkbox"/> <input type="checkbox"/>
3.	Is aeroplane position automatically determined from DME/DME sensors?	<input type="checkbox"/> <input type="checkbox"/>
4.	Is aeroplane position automatically determined from INS/IRS systems <u>with</u> automatic updating from suitable radio based navigation equipment?	<input type="checkbox"/> <input type="checkbox"/>

5.	Is aeroplane position automatically determined from INS/IRS systems <u>without</u> automatic updating from suitable radio based navigation equipment?	Yes	No
6.	Is aeroplane position automatically determined from independent (stand-alone) GPS systems?	<input type="checkbox"/>	<input type="checkbox"/>
7.	Is aeroplane position automatically determined from FMS / Multisensor navigation systems integrating GPS?	<input type="checkbox"/>	<input type="checkbox"/>
8.	Is a single navigation system installed?	<input type="checkbox"/>	<input type="checkbox"/>
9.	Are dual navigation systems installed?	<input type="checkbox"/>	<input type="checkbox"/>
10.	Is a single long-range navigation systems installed?	<input type="checkbox"/>	<input type="checkbox"/>
11.	Are dual independent long-range navigation systems installed?	<input type="checkbox"/>	<input type="checkbox"/>
12.	Are triple independent long-range navigation systems installed?	<input type="checkbox"/>	<input type="checkbox"/>
13.	other:	<input type="checkbox"/>	<input type="checkbox"/>
14.	Aeroplane Flight Manual (Supplement) shows following airworthiness approval for navigation system installation: <input type="checkbox"/> FAA AC 20-130A <input type="checkbox"/> FAA AC 20-138 <input type="checkbox"/> FAA AC 25-4 <input type="checkbox"/> FAA AC 90-45A <input type="checkbox"/> FAA AC 25-15 <input type="checkbox"/> RNP-10 <input type="checkbox"/> FAA Notice 8110.60 <input type="checkbox"/> FAA TSO-C115() <input type="checkbox"/> FAA TSO-C145 <input type="checkbox"/> FAA TSO-C146 <input type="checkbox"/> FAA TSO-C129a <input type="checkbox"/> JAA JTSO-2C115() <input type="checkbox"/> JAA JTSO-2C129a <input type="checkbox"/> JAA GEN TGL No. 10 <input type="checkbox"/> JAA AMJ 20X2 <input type="checkbox"/> FAA AC 90-94 <input type="checkbox"/> FAA Order 8400.12A <input type="checkbox"/> other:		
15.	For B-RNAV only: Unless otherwise specified in the AFM (Supplement) INS/IRS system installations which do not have automatic navigation updating of INS/IRS position are limited to a maximum 2-hour time limit for operation in designated RNAV airspace. Limitation applicable? If "yes" state limit in hours:	Yes	No
16.	For RNP-10 and NAT-MNPS only: Unless otherwise specified in the AFM (Supplement) INS/IRS system installations which do not have automatic navigation updating of INS/IRS position are limited to a maximum 6.2-hour time limit for operation in designated RNAV airspace. Limitation applicable? If "yes" state limit in hours:	<input type="checkbox"/>	<input type="checkbox"/>
17.	If RNAV operations are based on stand-alone GPS navigation equipment, availability of GPS integrity should be confirmed and obtained from a Receiver Autonomous Integrity Monitoring (RAIM) prediction program that is provided in the GPS unit in the aeroplane, a prediction program run outside the aeroplane, or an alternate method considered acceptable to the CAAK. RAIM prediction program provided in the aeroplane? RAIM prediction program run outside the aeroplane?	<input type="checkbox"/>	<input type="checkbox"/>
18.	RNAV operations with stand-alone GPS navigation equipment approved i.a.w. TSO-C129, but does not provide pseudorange step detection and health word checking functions, are limited to flights where maximum RAIM outages do not exceed 5 minutes. Limitation applicable?	<input type="checkbox"/>	<input type="checkbox"/>
19.	For RNP-10 and NAT-MNPS only: If operations are based on stand-alone GPS navigation equipment, availability of GPS integrity should be confirmed and obtained from an approved dispatch fault detection and exclusion (FDE) availability prediction program. Satellite Fault Detection an Exclusion (FDE) capability?	<input type="checkbox"/>	<input type="checkbox"/>
20.	Extended overwater operations shall not be performed unless at least dual long-range communication (LRCS) equipment (HF Voice / Data Link, SATCOM, etc.) is installed and operational. Dual LRCS installed?	<input type="checkbox"/>	<input type="checkbox"/>
Navigation System Eligibility for referenced Aeroplane Serial Number			
21.	Navigation system manufacturer / model installed (e.g. Flight Management System (FMS)): Make: _____ Model: _____ TSO- _____ Make: _____ Model: _____ TSO- _____ Make: _____ Model: _____ TSO- _____		
22.	The approval of the RNAV systems installation is based on: <input type="checkbox"/> Type design <input type="checkbox"/> FAA <input type="checkbox"/> CAAK STC <input type="checkbox"/> STC Service Bulletin <input type="checkbox"/> JAA STC <input type="checkbox"/> CAAK Major Modification <input type="checkbox"/> other:		
Maintenance Program (*)			
23.	The applicant should have an established Maintenance Program that contains all RNAV related maintenance requirements prescribed by the manufacturer or design organisation? RNAV Maintenance program established?	Yes	No
Minimum Equipment List (*)			
24.	The applicant should revise the relevant parts of the Minimum Equipment List to reflect system requirements (e.g. redundancy levels) appropriate to the intended RNAV operations? Minimum Equipment List revised?	<input type="checkbox"/>	<input type="checkbox"/>

3. OPERATION

Operating Practices and Procedures (*)	
The applicant must institute RNAV Operating Practices and Procedures. These practices and procedures should cover the following subjects:	<i>To be completed by applicant</i> RNAV Operating Practices and Procedures are described in (add manual reference, chapter and sub-chapter):
1. Flight planning (verification of aeroplane RNAV approval, RNAV time limits, ICAO Flight Plan annotations, requirements for GPS (RAIM, FDE), operating restrictions related to RNAV approval, etc.).	
2. Pre-flight procedures (review of technical log, external inspection (navigation antennas), use of MEL), verification of NAV database validity, etc.).	
3. En-route procedures (cross checking procedures to identify navigation errors, use of INS/IRS navigation systems without automatic radio navigation updating, use of GPS, minimum navigation and communication systems when entering RNAV area, alternate routings, position check before entering RNAV area, etc.).	
4. Procedures with respect to flight crew response to abnormal situations (response to non-normal events, notification of ATC of navigation equipment problems, contingency procedures, selection of other navigation aids in case of loss of RNAV capability, etc.).	
5. Data base integrity assurance procedures (supplier evaluation, integrity checks (software tools), reporting of discrepancies to suppliers, notification of discrepancies to flight crews, updating process, etc.).	
Flight Crew Training and Qualification (*)	
The applicant is required to establish the following (covering subjects under 3.1 to 3.5):	<i>To be completed by applicant</i> Description in (add manual reference, chapter and sub-chapter):
6. Flight crew qualification requirements.	
7. Description of initial and recurrent training, checking and training-syllabi.	

4. APPLICATION PACKAGE

Documentation to be submitted to the Civil Aviation Authority of Kosovo (CAAK)		Submitted?	
		Yes	No
1.	Compliance statement which shows how the criteria of JAA ACJ 20X4 (B-RNAV) or JAA GEN TGL No. 10 (P-RNAV) or FAA Order 8400.12A (RNP-10) or ICAO Doc 7030/4 (NAT-MNPS) have been satisfied (*).	<input type="checkbox"/>	<input type="checkbox"/>
2.	Sections of the AFM or AFM Supplements that document RNAV airworthiness approval.	<input type="checkbox"/>	<input type="checkbox"/>
3.	Flight crew RNAV training programmes and syllabi for initial and recurrent training (*).	<input type="checkbox"/>	<input type="checkbox"/>
4.	Operation manuals and checklists that include RNAV operating practices and procedures (OM-A, OMB, OM-D, AOM, FCOM, Route Manuals, stand-alone RNAV manual, etc.) (*).	<input type="checkbox"/>	<input type="checkbox"/>
5.	Minimum Equipment List (MEL) that include items pertinent to RNAV operations (*).	<input type="checkbox"/>	<input type="checkbox"/>
6.	Maintenance program or revision thereof that include items pertinent to RNAV equipment (*).	<input type="checkbox"/>	<input type="checkbox"/>
7.	Service Bulletin, Supplemental Type Certificate (STC) or Major Modification Approval Documentation, if approval based on documents as detailed in 2.22 above (except if based on approved type design).	<input type="checkbox"/>	<input type="checkbox"/>

5. APPLICANT'S STATEMENT

The undersigned certifies the above information to be correct and true and that aeroplane system installation, continuing airworthiness of systems, minimum equipment for dispatch, operating procedures and flight crew training comply with the requirements referenced under "Applicability".		
Name of Post Holder Maintenance:	Signature:	Date:
Name of Post Holder Operations:	Signature:	Date:
Name of Post Holder Training:	Signature:	Date:

(For official use only)

	Subject	Responsible	Date	Signature
1.	AACK-DSF/AOC-Form 1 and AACK-DSF/OPS F-2 and item 4 application package checked for completeness.	FOI		
2.	Airworthiness Approval granted (Appendix to Certificate of Airworthiness).	AWI		
3.	Operational Approval granted (AOC, OS and Letter of Authorisation).	FOI		
4.	For P-RNAV only: Inform USC of P-RNAV approval of aeroplane (E-Mail AMN.USC.Support@euronrol.int).	FOI		
5.	RNAV approval process administratively completed (OPS Update, Billing, and Exchange of Certificates).	FOI		
Withdrawal of RNAV Approval				
Reason:				
Notification to CMA and/or USC by:				
Name:		Date:		Signature: