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| **APPLICATION FOR RNAV 10 / RNP 10**  **(AREA NAVIGATION 10 / REQUIRED NAVIGATION PERFORMANCE 10)** | | | | | | | | | |  | | | |
| **INSTRUCTIONS**  1 The applicant will tick (√) the appropriate yes/no boxes and as applicable insert references from the AFM or Ops Manual with sample pages attached as appendix.  2 Operator must obtain and submit manufacturer’s written confirmation with regard to continuing maintenance.  3 Operating policy and procedures, training syllabus and lesson plan must be submitted for approval before commencement of flight crew / dispatcher training. | | | | | | | | | | | | | |
| **PARTICULARS** | | | | | | | | | | | | | |
| **Operator:** | Click or tap here to enter text. | | | **AOC No:** | Click or tap here to enter text. | | **Rep’s Name:** | Click or tap here to enter text. | | | **Position:** | Click or tap here to enter text. | |
| Aircraft manufacturer,  Model and series | | Serial number | Registration | | | No.of INS / IRS / IRU manufacturer and model | No. of GNSS manufacturer and model | | No. of FMS / FMGC manufacturer and model | Any other Long Range Navigation systems and No. | | | RNAV/RNP specification |
| Click or tap here to enter text. | | Click or tap here to enter text. | Click or tap here to enter text. | | | Click or tap here to enter text. | Click or tap here to enter text. | | Click or tap here to enter text. | Click or tap here to enter text. | | | Click or tap here to enter text. |
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|  | **Operator’s compliance reference** | **CAAS Use**  *(All line items are to be initialed and dated)* | | | |
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| **Acceptable** | **Unacceptable** | **Not Applicable** | **Remark(s)** |
| **AC98-2-2**  **3 AIRCRAFT ELIGIBILITY**  3.1 Aircraft meeting the following requirements (LRNS) are eligible for RNAV 10 operational approval:  (a) Dual INS or IRU approved in accordance with 14 CFR Part 121 Appendix G (Operating time limit with no radio-updating is 6.2 hour starting from engagement in inertial navigation mode.);  (b) Dual GNSS with FAA AC 20-138A certification for primary means of navigation in oceanic and remote areas subject to approved dispatch FDE prediction. (Maximum FDE outage time is 34 mins);  (c) Multisensor systems integrating GNSS with FDE approved using the guidance in AC 20-138( ), Appendix 1 can be considered to meet RNP 10 requirements without time limitations; or | Click or tap here to enter text. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text. |
| **5 FLIGHT CREW KNOWLEDGE AND TRAINING**  5.1 The operator must have programme to ensure the flight crew have the necessary knowledge and skills in RNAV 10 operations. | Click or tap here to enter text. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text. |
| 5.2 Where GNSS is used, the flight crew should be familiar with GNSS principles relating to air navigation. | Click or tap here to enter text. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text. |
| 5.3 The Authority may accept RNAV 10 training using ground-based instructional method. | Click or tap here to enter text. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text. |
| **DOC 9613**  **OPERATIONS MANUAL**  **Flight Planning**   * Verify RNAV 10 time limit * Verify requirement for GNSS, such as FDE, if appropriate. | Click or tap here to enter text. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text. |
| **Pre-flight procedures**   * Review technical log * Review emergency procedures | Click or tap here to enter text. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text. |
| **LRNSs fully serviceable and with integrity en-route**  Aircraft position X-check against Navaids for accuracy prior to entry | Click or tap here to enter text. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text. |
| **General operating procedures**  Check time limit if operation with INS/IRU only. Time starts when system enters navigation mode and stops when reference to navaids. | Click or tap here to enter text. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text. |
| **CONTINUING AIRWORTHINESS**  Maintenance programme reference | Click or tap here to enter text. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text. |
| **MINIMUM EQUIPMENT LIST (MEL)**  MEL showing LRNS provisions | Click or tap here to enter text. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text. |
| **HUMAN MACHINE INTERFACE (HMI)**  HMI review | Click or tap here to enter text. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text. |
| **QUALITATIVE SAFETY RISK ASSESSMENT (QSRA)** | Click or tap here to enter text. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text.  Click or tap to enter a date. | Click or tap here to enter text. |

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| **“Warning:   Notice is given that the operator shall accept full responsibility for all information given in this application form. Any attempt to provide false information will result in rejection of the application and, if already granted, the withdrawal of the Operational Approval. In addition, the operator may render himself liable to prosecution under section 29C(1)(b) of the Air Navigation Act.”** | | | | |
| “I declare to the best of my knowledge and belief that the statements made and the information supplied in this form are complete and correct.  I understand that any false representations made by me for the purpose of procuring the Singapore aviation safety instrument is an offence under section 29C(1)(b) of the Air Navigation Act and I may be subject to the penalties stipulated thereunder and any Singapore aviation safety instrument granted pursuant to the application will be revoked.” | | | | |
| **Signature / Name of person representing the operator** | |  | | |
| **Signature / Name of FS Officer accepting this form** | |  | | |
| **Revision history:** | | | | |
| **Version** | **Date** | | **Paragraph(s)** | **Details** |
| 1.0 | 01 October 2015 | | Title & others | Miscellaneous |
| 2.0 | 31 July 2019 | | Various | Change in References |
| 3.0 | 30 November 2021 | | All | * signature columns added * Changed formatting |

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| **REFERENCES** | |
| Regulatory | : (1) ANR-98 |
| Compliance | : (1) CAAS AC 98-2-2 (2) ICAO Doc 9613 (3) FAA Order 8400.12A |