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| **APPLICATION FOR MINIMUM NAVIGATION PERFORMANCE SPECIFICATIONS (MNPS)** | | | | | | | | | |  | | | |
| **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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|  | **Completion by applicant** | | **CAAS Use**  *(All line items are to be initialed and dated)* | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **YES** | **NO** | **Acceptable** | **Unacceptable** | **Not Applicable** | **Remark(s)** |
| **AC AOC 14(0)**  **9 COMPLIANCE AND AIRWORTHINESS CERTIFICATION**  9.1 For operational approval to operate in NAT MNPS the operator has to address the following:  (a) Crew training and operating drills as described in the NAT MNPS Airspace Operations Manual;  (b) Equipment installation and procedures;  (c) Assurance that equipment redundancy satisfies Authority requirement; and  (d) Suitable use of equipment. |  |  | 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. |
| 9.2 Sixth Schedule of the ANO requires that for MNPS operation the navigation equipment shall be capable of continuously providing indications to the flight crew of track adherence. |  |  | 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. |
| 9.3 For unrestricted operation in the MNPS airspace, the aircraft shall be required to carry the following equipment:  (a) Two fully serviceable Long Range Navigation Systems (LRNSs) one of which may be the following:  (1) One Inertial Navigation System (INS);  (2) One Global Navigation Satellite System (GNSS); or  (3) One navigation system using inputs from Inertial Reference System(s) (IRS) or other sensor complying with MNPS requirement.  (b) Each LRNS must be capable of providing a continuous indication to the flight crew of aircraft position relative to the desired track. |  |  | 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. |
| 9.4 For NAT RVSM requirement, both the operator and the aeroplane must be approved by the Authority for RVSM operation. |  |  | 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. |
| 9.5 The operator’s MNPS operations policy/procedures must be consistent with the following ICAO documents:  (a) NAT DOC 001 - Guidance and Information Material Concerning Air Navigation in the North Atlantic.  (b) NAT MNPS Manual – Edition 2009 |  |  | 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. |
| **10 APPLICATION FOR MNPS OPERATIONAL APPROVAL**  10.1 Before making enquiry about MNPS operational approval application, an operator shall ensure that:  (a) Both the operator and aeroplane are authorized for RVSM operations by the Authority; and  (b) The aircraft navigation equipment complies with ICAO NAT DOC 001. |  |  | 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. |
| 10.2 The standard 5-step application process comprising, pre-application meeting, formal submission of allocation package, evaluation / assessment of documents, proving flight/validation and final approval/rejection of application, applies. |  |  | 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. |
| 10.3 The operator should notify and engage the Authority as early as possible of his MNPS plan and subject to completeness and timeliness of the submission, the approval process would require 30 working days to complete. |  |  | 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. |
| **11 CONTINUOUS MONITORING**  11.1 The operator shall continuously monitor and maintain the required level of navigational performance |  |  | 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. |
| 11.2 The operator must conduct timely investigation of any gross navigational error greater than 25 NM, to identify the cause of the error and the action to be taken to prevent re-ocurrence of such error. |  |  | 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. |
| 11.3 A report shall be made to the Authority within 72 hours of occrrence with initial results of the investigation and the corrective action taken or to be taken. |  |  | 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 practices and procedures  Maintenance training requirement |  |  | 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 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 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 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 | | Various | Minor editorial |
| 2.0 |  | |  |  |
| 3.0 | 30 November 2021 | | All | * signature columns added * Changed formatting * Fillable |

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| **REFERENCES** | |
| Regulatory | : (1) ANO 6th Schedule (2) AOCR, Chapter 2 Paragraphs 21 |
| Compliance | : (1) CAAS AC AOC 22(0) (2) ICAO Doc 9574 (3) FAA AC 91-85 (4) EASA/JAA TGL 6 (Rev 1) |