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| **APPLICATION FOR REQUIRED NAVIGATION PERFORMANCE APPROACH (RNP APCH)**  |  |
| **INSTRUCTIONS**1 The operator 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. |

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| Aircraft manufacturer,Type and series | Serial number | Registration | No. of INS / IRS / IRU make and model | No. of GNSS make and model | No. of FMS / FMGC make and model | CPDLC / ADS-CMake and model |
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|  | **Completion by Applicant** | **Applicant’s Compliance Reference** | **CAAS Use** |
| --- | --- | --- | --- |
|  | **YES** | **NO** |  | **Acceptable** | **Unacceptable** | **Not Applicable** | **Remark(s)** |
| **AC 98-2-6****1 AIRWORTHINESS REQUIREMENTS:** |  |  |  |  |  |  |  |
| 1.1 Aircraft eligibility: (a) Aircraft with the following avionics equipment and an appropriate airworthiness approval automatically qualify for RNP APCH to LNAV (b) minima capability without further documentation by virtue of the avionics Technical Standard Order (TSO) and airworthiness approval: |[ ] [ ]  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. |
| 1.2 GPS stand-alone systems approved in accordance with TSO-C129(), Class A1, or TSO-C146 operational Class 1, 2, or 3 and installed in accordance with AC 20-138(). |[ ] [ ]  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. |
| 1.3 Aircraft with a TSO-C115c or later flight management system (FMS) with a TSO-C129() (Class B1, C1, B3, C3), TSO-C145(), or TSO-C196() sensors installed in accordance with AC 20-138( ). |[ ] [ ]  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. |
| 1.4 Aircraft with a TSO-C115b FMS using a TSO-C129( ) Class B1/C1, TSO-C145( ), or TSO-C196( ) sensor with documented compliance to the RNP requirements in RTCA, Inc.’s document, RTCA/DO-236 (revision ‘B’ or later) or RTCA/DO-283 (revision ‘A’ or later) as part of the approval basis.*Note: AFM documentation of compliance to FAA AC 90-105A Appendix A is one of the means to demonstrate RNP APCH capability* |[ ] [ ]  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. |
| **2 AIRCRAFT SYSTEM PERFORMANCE MONITORING AND ALERTING CRITERIA:** |  |  |  |  |  |  |  |
| 2.1 Accuracy:  (a) The lateral and longitudinal Total System Error (TSE) of the onboard navigation system must be equal or better than: |[ ] [ ]  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. |
|  (i) ±1nm for at least 95% of the flight time for the initial, intermediate and RNAV missed approach segments; and  |[ ] [ ]  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. |
|  (ii) ±0.3nm for at least 95% of the flight time for the final approach segment. |[ ] [ ]  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. |
|  (b) To satisfy the accuracy requirement: |[ ] [ ]  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. |
|  (i) for the initial and intermediate segments and RNAV missed approach of an RNP APCH, the 95% FTE should not exceed 0.5nm;  |[ ] [ ]  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. |
|  (ii) for the final approach segment of an RNP APCH the 95% FTE should not exceed 0.25nm. |[ ] [ ]  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. |
| 2.2 Integrity: (a) Displaying misleading navigational or positional information to the flight crew during the approach is classified as a major condition under airworthiness regulations and the probability shall be remote (i.e. <10–5 per hour). |[ ] [ ]  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. |
| 2.3 Continuity: (a) Loss of function is classified as a minor failure condition if the operator can revert to a different navigation system and proceed to a suitable airport. Procedures containing conventional missed approach must ensure availability of the necessary air and ground-based navigation equipment. |[ ] [ ]  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. |
| 2.4 Performance monitoring and alerting: (a) During initial, intermediate and missed approach segments the RNP system, (or the RNP system and pilot in combination) the aircraft shall provide an alert: |  |  |  |  |  |  |  |
|  (i) if the accuracy requirement is not met, 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. |
|  (ii) if the probability that the lateral TSE exceeds 2nm is >10–5.  |[ ] [ ]  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. |
|  (b) During the final approach segment, the RNP system, (or the RNP system and pilot in combination) aircraft shall provide an alert: (i) if the accuracy requirement is not met, 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. |
|  (ii) if the probability that the lateral TSE exceeds 0.6nm is >10–5. |[ ] [ ]  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. |
| 2.5 Signal-in-space (a) The aircraft navigation system shall provide an alert if the probability of signal-in- space errors causing a lateral position error greater than: (i) 2 nm exceeds 10–7 per hour for the initial and intermediate segments and for the RNAV missed approach, 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. |
|  (ii) 0.6nm exceeds 10–7 per hour for the final approach segment. |[ ] [ ]  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. |
| *Note: There are no RNP APCH requirements for a missed approach based on conventional means (VOR, DME, NDB) or on dead reckoning.**Note: Compliance with the performance monitoring and alerting requirement does not imply automatic monitoring of a flight technical error. The on-board monitoring and alerting function should consist of at least a navigation system error (NSE) monitoring and alerting algorithm and a lateral deviation display enabling the crew to monitor the flight technical error (FTE). To this extent operational procedures are used to monitor FTE, the crew procedure, equipment characteristics, and installation are evaluated for their effectiveness and equivalence as described in the functional requirements and operating procedures. Path definition error (PDE) is considered negligible due to the quality assurance process and crew procedures* *Note: The following systems meet the requirements for accuracy, integrity and continuity:**GNSS standalone systems approved in accordance with:* *TSO-C129a / ETSO-C129a Class A1 or**ETSO-C146()/TSO-C146() Class Gamma, operational class 1, 2 or 3.**GNSS sensors used in multi-sensor system (e.g. FMS) approved in accordance with:**TSO-C129() / ETSO-C129() Class B1, C1, B3, C3 or* *ETSO-C145() / TSO-C145() class 1, 2 or 3.**Multi-sensor systems using GNSS approved in accordance with FAA AC 20-130A or TSO-C115b, having been demonstrated for RNP capability.**For GNSS receivers approved in accordance with ETSO-129() / TSO-129() capability for FDE (satellite detection and exclusion) functions are recommended.*  |  |  |  |  |  |  |  |
| **3 FUNCTIONAL REQUIREMENTS:** |  |  |  |  |  |  |  |
| 3.1 The items below are required functions for RNP APCH: (a) Navigation data, including a to/from indication, and a failure indication, must be displayed on a lateral deviation display (CDI, (E)HSI) and/or a navigation map display. These must be used as primary flight instruments for the navigation of the aircraft, for maneuver anticipation and for failure/status/integrity indication. |[ ] [ ]  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. |
|  (b) the displays must be visible to the pilot and located in the primary field of view (±15 degrees from the pilot’s normal line of sight) when looking forward along the flight path. |[ ] [ ]  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. |
|  (c) the lateral deviation display scaling should agree with any alerting and annunciation limits. |[ ] [ ]  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. |
|  (d) the lateral deviation display must also have a full-scale deflection suitable for the current phase of flight and must be based on the TSE requirement. scaling is: (i) ±1nm for the initial and intermediate segments; and  (ii) ±0.3nm for the final segment. |[ ] [ ]  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. |
|  (e) the display scaling may be set automatically by default logic or set to a value obtained from a navigation database. The full-scale deflection value must be known or must be available for display to the pilot commensurate with approach values. |[ ] [ ]  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. |
|  (f) as an alternate means, a navigation map display must give equivalent functionality to a lateral deviation display with appropriate map scales (scaling may be set manually by the pilot). To be approved, the navigation map display must be shown to meet the TSE requirements. |[ ] [ ]  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. |
|  (g) it is highly recommended that the course selector of the deviation display is automatically slaved to the RNAV computed path. *Note: This does not apply for installations where an electronic map display contains a graphical display of the flight path and path deviation.* |[ ] [ ]  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. |
| 3.2 A flight director and/or autopilot is not required for this type of operation, however, if the lateral TSE cannot be demonstrated without these systems, it becomes mandatory. In this case, coupling to the flight director and/or automatic pilot from the RNAV system must be clearly indicated at the cockpit level; and |[ ] [ ]  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. |
| 3.3 Enhanced navigation display (e.g. electronic map display or enhanced EHSI) to improve lateral situational awareness, navigation monitoring and approach verification (flight plan verification) could become mandatory if the RNAV installation doesn’t support the display of information necessary for the accomplishment of these crew tasks. |[ ] [ ]  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. |
| 3.4 The capability to continuously display to the pilot flying, on the primary flight instruments for navigation of the aircraft (primary navigation display), the RNAV computed desired path and aircraft position relative to the path.*Note: Where the minimum flight crew is two pilots, the means for the pilot monitoring to verify the desired path and the aircraft position relative to the path must also be provided.* |[ ] [ ]  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. |
| 3.5 A navigation database, containing current navigation data officially promulgated for civil aviation, which can be updated in accordance with the AIRAC cycle and from which approach procedures can be retrieved in their entirety and loaded into the RNAV system.  (a) The stored resolution of the data must be sufficient to achieve the required track-keeping accuracy. The database must be protected against pilot modification of the stored data. *Note: When a procedure is loaded from the database, the RNAV system is required to fly it as published. This does not preclude the flight crew from having the means to modify a procedure or route already loaded into the RNAV/GNSS system as permitted by paragraph 10. However, the procedure stored in the database must not be modified and must remain intact within the database for future use and 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. |
|  (b) The means to display the validity period of the navigation data to the flight crew. |[ ] [ ]  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. |
|  (c) The means to retrieve and display data stored in the navigation database relating to individual waypoints and navigation aids, to enable the pilot to verify the procedure to be flown. |[ ] [ ]  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. |
|  (d) Capacity to load from the database into the RNAV system the whole approach to be flown. |[ ] [ ]  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. |
|  (e) The means to display the either in the pilot’s FOV or on a readily accessible display page on the RNAV CDU, readily visible to the flight crew: (i) the identification of the active (To) waypoint. (ii) the distance and bearing to the active (To) waypoint; and (iii)the ground speed or time to the active (To) waypoint. |[ ] [ ]  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. |
|  (f) The means to display the following items on a readily accessible display page: (i) the display of distance between flight waypoints. (ii) the display of distance to go. (iii) the display of along-track distances; and (iv) the active navigation sensor type if there is another sensor in addition to the GNSS sensor. |[ ] [ ]  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. |
|  (g) Capability to execute a “Direct to” function. |[ ] [ ]  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. |
|  (h) Capability for automatic leg sequencing with display of sequencing to the flight crew. |[ ] [ ]  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. |
|  (i) Capability to execute database procedures including: (i) Fly over; and (ii) Fly by turns |[ ] [ ]  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. |
|  (j) Capability to automatically execute leg transitions and maintain tracks consistent with the following ARINC 424 path terminators, or their equivalent: (i) ARINC 424 path terminators (ii) Initial fix (IF) (iii) Track to fix (TF) (iv) Direct to fix (DF) *Note: Path terminators are defined in ARINC Specification 424, and their application is described in more detail in RTCA DO-236B / EUROCAE ED-75(B) and RTCA DO-201A / EUROCAE ED-77, and EUROCONTROL Document NAV.ET1.ST10.* |[ ] [ ]  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. |
|  (k) Capability to display an indication of the RNAV system failure, including the associated sensors, in the pilot’s primary field of view. |[ ] [ ]  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. |
|  (l) Capability to indicate to the flight crew when NSE alert limit in exceeded (alert provided by the “on-board performance monitoring and alerting function”). |[ ] [ ]  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. |
| **4 CONTINUING AIRWORTHINESS:**4.1 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. |
| **5 OPERATING PROCEDURES:** |  |  |  |  |  |  |  |
| 5.1 Pre-flight planning (a) The operator must ensure that the flight crew conducting RNP APCH procedures file the appropriate flight plan suffixes and that the on-board navdata are current and include appropriate procedures. *Note: The operator should have a procedure to cope with such in-flight Navdata change due to AIRAC cycle.* |[ ] [ ]  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 In addition to the normal pre-flight planning checks, the operator must ensure the following: (a) the flight crew will use only approach procedure selected from a valid navigation database not prohibited by the operator or NOTAM. |[ ] [ ]  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. |
|  (b) the flight crew are trained and have sufficient means to navigate and land at the destination or at an alternate aerodrome in the case of loss of RNP APCH airborne capability. |[ ] [ ]  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. |
|  (c) the flight crew shall take account of any NOTAMs or operator briefing material that could adversely affect the aircraft system operation, or the availability or suitability of the procedures at the airport of landing, or any alternate airport; and |[ ] [ ]  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. |
|  (d) for missed approach procedures based on conventional means (VOR, NDB), the flight crew shall ensure that the appropriate airborne equipment required for this procedure is installed in the aircraft and is operational and that the associated ground-based navaids are operational. |[ ] [ ]  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. |
| 5.4 The availability of the navaid infrastructure, required for the intended routes, including any non-RNAV contingencies, must be confirmed for the period of intended operations using all available information. Since GNSS integrity (RAIM or SBAS signal) is required by Annex 10, Volume I, the availability of these should also be determined as appropriate. For aircraft navigating with SBAS receivers (all TSO-C145(b) / C146(b)), operators should check appropriate GPS RAIM availability in areas where the SBAS signal is unavailable. |[ ] [ ]  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. |
| **6 ABAS availability:** |  |  |  |  |  |  |  |
| 6.1 RAIM availability prediction should take into account the latest GPS constellation NOTAMs and avionics model (when available). The service may be provided by the ANSP, avionics manufacturer, and other entities, or through an airborne receiver RAIM prediction capability. The operator should ensure that the flight crew are familiar with the RAIM availability prediction information for the intended route. |[ ] [ ]  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. |
| 6.2 The operator must provide clear instruction that in the event of a predicted, continuous loss of appropriate level of fault detection of more than five minutes for any part of the RNP APCH operation, the flight planning should be revised (e.g. delaying the departure or planning a different departure procedure). |[ ] [ ]  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. |
| 6.3 The operator must be fully aware that RAIM or GPS navigation may altogether be lost while airborne which may require reversion to an alternative means of navigation and must therefore ensure that the flight crew have the capability to navigate (potentially to an alternate destination) in case of failure of GPS 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. |
| **7 Prior to commencing the procedure:** |  |  |  |  |  |  |  |
| 7.1 The operator shall ensure in the procedure that before the IAF and in compatibility with crew workload, the flight crew shall verify the correct navdata procedure is displayed by comparison with the approach charts and this check must include: (a) the waypoint sequence; and (b) reasonableness of the tracks and distances of the approach legs, and the accuracy of the inbound course and length of the final approach segment. |[ ] [ ]  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. |
| 7.2 The crew must also check using the published charts, the map display or control display unit (CDU), which waypoints are fly-by and which are flyover. |[ ] [ ]  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. |
| 7.3 For multi-sensor systems, the crew must verify, during the approach, that the GNSS sensor is used for position computation. |[ ] [ ]  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. |
| 7.4 For an RNP system with ABAS requiring barometric corrected altitude, the current airport barometric altimeter setting should be input at the appropriate time and location, consistent with the performance of the flight operation. |[ ] [ ]  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. |
| 7.5 When the operation is predicated on the availability of ABAS, the flight crew should perform a new RAIM availability check if ETA is more than 15 minutes different from the ETA used during the pre-flight planning. This check is also automatically processed 2 NM before the FAF for an E/TSO-C129a Class A1 receiver. |[ ] [ ]  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. |
| 7.6 The operator must ensure that the flight crew are fully aware of the limitations of the RNP system with regard to “Direct to” tactical intervention clearance by ATC that: (a) the manual entry of coordinates into the RNAV system by the flight crew for operation within the terminal area is not permitted. |[ ] [ ]  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. |
|  (b) “Direct to” clearances may be accepted to the intermediate fix (IF) provided that the resulting track change at the IF does not exceed 45 degrees; and |[ ] [ ]  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. |
|  (c) “Direct to” clearance to FAF is not acceptable. |[ ] [ ]  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. |
| 7.7 The operator must ensure that the flight crew must never revise the lateral definition of the flight path between the FAF and the missed approach point (MAPt). |[ ] [ ]  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. |
| **8 During the procedure:** |  |  |  |  |  |  |  |
| 8.1 The aircraft must be established on the final approach course no later than the FAF before starting the descent (to ensure terrain and obstacle clearance). |[ ] [ ]  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. |
| 8.2 The operator must ensure that the flight crew check the approach mode annunciator (or equivalent) is properly indicating approach mode integrity within 2 NM before the FAF.*Note: This will not apply for certain RNP systems (e.g. aircraft already approved with demonstrated RNP capability). For such systems, other means are available including electronic map displays, flight guidance mode indications, etc., which clearly indicate to the crew that the approach mode is activated.* |[ ] [ ]  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. |
| 8.3 The flight crew shall select the appropriate displays so that the following information can be monitored: |  |  |  |  |  |  |  |
|  (a) the RNAV-computed desired path (DTK); and |[ ] [ ]  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. |
|  (b) the aircraft position relative to the path (cross-track deviation) for FTE monitoring. |[ ] [ ]  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. |
| 8.4 The procedure must be discontinued: |  |  |  |  |  |  |  |
|  (a) if the navigation display is flagged invalid; 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. |
|  (b) in case of loss of integrity alerting function; 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. |
|  (c) before passing FAF the integrity alerting function is annunciated not available; 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. |
|  (d) if FTE is excessive.*Note: For multi-sensor system that includes demonstrated RNP capability without GNSS, it may not be necessary to discontinue the procedure. The manufacturer’s documentation should be referred to determine the extent the system may be used in such configuration.* |[ ] [ ]  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. |
|  8.5 The missed approach must be flown in accordance with the published procedure. Use of the RNAV system during the missed approach is acceptable, provided: |  |  |  |  |  |  |  |
|  (a) the RNAV system is operational (e.g no loss of function, no NSE alert, no failure indication); and |[ ] [ ]  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. |
|  (b) the whole procedure (including the missed approach) is loaded from the navigation database. |[ ] [ ]  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. |
| 8.6 The operator must endure that during the RNP APCH procedure, the flight crew use a lateral deviation indicator, flight director and/or autopilot in lateral navigation mode and ensure that lateral deviation indicator (CDI) scaling (full-scale deflection) is suitable for the navigation accuracy associated with the various segments of the procedure i.e.: |  |  |  |  |  |  |  |
|  (a) ±1.0 nm for the initial and intermediate segments,  |[ ] [ ]  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. |
|  (b) ±0.3 nm for the final approach segment, and  |[ ] [ ]  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. |
|  (c) ±1.0 nm for the missed approach segment).  |[ ] [ ]  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. |
| 8.7 Unless authorized by ATC to deviate or under emergency conditions, the flight crew must maintain procedure centerlines as depicted by on-board lateral deviation indicators and/or flight guidance during the whole approach procedure.  |[ ] [ ]  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. |
| 8.8 For normal operations, cross-track error/deviation (the difference between the RNAV system computed path and the aircraft position relative to the path) should be limited to ±½ the navigation accuracy associated with the procedure (i.e. 0.5 nm for the initial and intermediate segments, 0.15 nm for the final approach segment, and 0.5 nm for the missed approach segment). Brief deviations from this standard (e.g. overshoots or undershoots) during and immediately after turns, up to a maximum of one-times the navigation accuracy (i.e. 1.0 nm for the initial and intermediate segments), are allowable. |[ ] [ ]  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. |
| 8.9 When BaroVNAV is used for vertical path guidance during the final approach segment, deviations above and below the BaroVNAV path must not exceed +30 m / –15 m (+100 ft /–50 ft), respectively. |[ ] [ ]  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. |
| 8.10 Unless positive visual references are acquired to continue the approach, the flight crew must execute a missed approach if the lateral deviations or vertical deviations exceed the above criteria. |[ ] [ ]  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. |
| **9 General operating procedures:** |  |  |  |  |  |  |  |
| 9.1 Unless operational approval to for RNP APCH is obtained from the Authority, the operator shall ensure that the flight crew do not request or engage in RNP APCH 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. |
| 9.2 The operator shall ensure the flight crew comply with any instructions or procedures identified by the manufacturer as necessary for safe operation. |[ ] [ ]  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. |
| 9.3 Unless specifically approved by the Authority the operator shall ensure that the RNP APCH approach is flown with flight director and autopilot systems. |[ ] [ ]  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. |
| **10 Contingency procedures:** |  |  |  |  |  |  |  |
| 10.1 The operator shall develop contingency procedures to cope with loss of the RNP APCH capability during the approach. This procedure shall require the flight crew to notify the ATC of loss of RNP APCH capability as well as the procedural course of action |[ ] [ ]  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. |
| 10.2 The contingency procedure shall contain instruction to the flight crew during communications failure to continue with the RNP APCH in accordance with the published loss of communication procedure |[ ] [ ]  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. |
| **11 PILOT KNOWLEDGE AND TRAINING:**11.1 The list below describes the scope of training necessary for proficiency of RNP APCH operations. Subject to the Authority’s discretion, operators who are RNAV experienced may submit a truncated version for approval: |  |  |  |  |  |  |  |
|  (a) the concept of PBN operation and contents of this BaroVNAV Attachment. |[ ] [ ]  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. |
|  (b) the meaning and proper use RNP systems. |[ ] [ ]  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. |
|  (c) ICAO Doc 8168 Vol 1 Chapter 1 Table I-4-1-2 Speeds for procedures calculations.  |[ ] [ ]  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. |
|  (d) procedure characteristics, as determined from chart depiction and textual description. |[ ] [ ]  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. |
|  (e) knowledge regarding depiction of waypoint types (flyover and fly-by) and path terminators (IF, TF, DF) used by the operator) as well as associated aircraft flight paths. |[ ] [ ]  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. |
|  (f) knowledge on the required navigation equipment in order to conduct RNP APCH 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. |
|  (g) Knowledge of RNP system specific information: |  |  |  |  |  |  |  |
|  (i) levels of automation, mode annunciations, changes, alerts, interactions, reversions, and degradation. |[ ] [ ]  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. |
|  (ii) functional integration with other aircraft systems. |[ ] [ ]  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. |
|  (iii) the meaning and appropriateness of route discontinuities as well as related flight crew 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. |
|  (iv) monitoring procedures for each phase of flight. |[ ] [ ]  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. |
|  (v) types of navigation sensors utilized by the RNP system and associated system prioritization/weighting/logic. |[ ] [ ]  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. |
|  (vi) turn anticipation with consideration to speed and altitude effects; and |[ ] [ ]  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. |
|  (vii) interpretation of electronic displays and symbols. |[ ] [ ]  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. |
|  (h) knowledge of RNAV equipment operating procedures including how to perform the following actions: |  |  |  |  |  |  |  |
|  (i) verify the currency of the aircraft data. |[ ] [ ]  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. |
|  (ii) verify the successful completion of RNP system self-tests. |[ ] [ ]  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. |
|  (iii) initialize RNP system position. |[ ] [ ]  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. |
|  (iv) retrieve and fly an RNP APCH. |[ ] [ ]  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. |
|  (v) adhere to speed and/or altitude constraints associated with an approach procedure. |[ ] [ ]  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. |
|  (vi) fly interception of an initial or intermediate segment of an approach following ATC notification. |[ ] [ ]  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. |
|  (vii) verify waypoints and flight plan programming. |[ ] [ ]  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. |
|  (viii) fly direct to a waypoint. |[ ] [ ]  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. |
|  (ix) determine cross-track error/deviation. |[ ] [ ]  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. |
|  (x) insert and delete route discontinuity. |[ ] [ ]  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. |
|  (xi) perform gross navigation error check using conventional navigation aids in accordance with approved procedures; and |[ ] [ ]  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. |
|  (xii) change arrival airport and alternate airport. |[ ] [ ]  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. |
|  (i) knowledge of operator-recommended levels of automation for phase of flight and workload, including methods to minimize cross-track error to maintain procedure centerline. |[ ] [ ]  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. |
|  (j) knowledge of radio telephony phraseology for RNP applications; and |[ ] [ ]  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. |
|  (k) ability to conduct contingency procedures following RNP system failures. |[ ] [ ]  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. |
| **12 NAVIGATION DATABASE INTEGRITY**12.1 The navigation database integrity must comply with RTCA DO-200A / EUROCAE ED-76 standards. The operator must ensure that the navigation database supplier or vendor to the operator hold valid Type LOA (Letter of Approval issued in accordance with FAA AC 90–153 or EASA IR 21(G) / EASA Nr 01/2005. |[ ] [ ]  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. |
| 12.2 The operator should also conduct additional navdata check of any new or changed procedure. Reports on navigation error must be acted upon promptly. Repeated navigation error occurrences attributed to a specific piece of navigation equipment may result in cancellation of the approval for use of that equipment. |[ ] [ ]  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. |
| **13 MEL** 13.1 Minimum equipment list 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. |
| **14 HMI** 14.1 Human / Machine Interface 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. |
| **15 QSRA** 15.1 Qualitative Safety Risk Assessment |[ ] [ ]  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 | Various | Minor editorial |
| 2.0 | 31 July 2019 | Various | Change in References |
| 3.0 | 01 December 2021 | All | * Signature column added
* Formatting changes
 |
| **References** |
| Regulatory | : (1) ANR 98 |
| Compliance | : (1) CAAS AC 98-2-6 |
| Guidance | : (1) ICAO Doc 9613 (2) EASA AMC 20-27 (3) EASA AMC 20-26 (4) FAA AC 90-101 |