**Skrydžių vykdymo specifikacijų pakeitimas B tipo EFB taikomųjų programų naudojimo leidimui**

 *Application for EFB approval checklist*

|  |  |
| --- | --- |
| **Oro vežėjas***Operator* |  |
| **SVV leidimo ir revizijos nr.***OM issue and revision no.* |  |
| **SVV revizijos data** *OM revision date* |  |
| **Oro vežėjo kontaktinis asmuo dėl klausimų susijusių su B tipo EFB taikomųjų programų leidimo patvirtinimo (vardas, pavardė, el. paštas, telefonas)***Operator`s contact person regarding questions associated with EFB approval (name, surname, email, telephone)* |  |

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| **Papildomi užrašai/komentarai***Additional notes/comments***:** |

**Vežėjo deklaracija**

Mes, žemiau pasirašę, patvirtiname, kad įmonė vykdo TKA išduotame vežėjo pažymėjime nurodytą veiklą ir parengė skrydžių vykdymo vadovą (toliau SVV) laikantis visų jai taikomų Reglamento (EU) Nr. 2018/1139 IV priedo, Reglamento 965/2012 I, III, IV ir V priedų bei EASA paskelbtų priimtinų atitikties užtikrinimo priemonių (AMC) ir aiškinamosios medžiagos (GM) su visais paskutiniais jų pakeitimais reikalavimų.

**Operator’s Compliance Statement**

I, the undersigned, declare that the intended Revision/Amendment – as submitted to TCA – has been established in accordance with all applicable regulations and the relevant acceptable means of compliance (AMC) and guidance material (GM).

Before submitting the Revision, its content has been thoroughly evaluated internally for compliance with applicable regulations by our internal quality assurance processes as defined in OM A, Chapter 3. We ensure further that the submitted Revision/Amendment complies with the scope of the AOC.

**Oro vežėjo autorizuoto asmens (arba Atsakingo vadovo)**

*Authorised person (or The Accountable Manager)*

Vardas, Pavardė:

*Name, surname*:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parašas:

*Signature*: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**NA = Not Applicable; C = Compliant; NC = Not Compliant; N/R = Not Reviewed**

**\*Stulpelį pildo vežėjas.**

*\*Filled by the operator*

**\*\*Pildo TKA.**

*\*\*Filled by TCA*

| **No.** | **Reference** | **Requirement** | **Specific requirements/expectations** | **OM reference\*** | **TCA Eval\*\*** | **Remarks/ Inspector code\*\*** |
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|  | **Hardware** |
|  | **AMC 20-25A, 5.1.1** | Have the installed EFB resources been certified by a CAA to accepted aviation standards either during the certification of the aircraft, service bulletin by the original equipment manufacturer, or by a third-party STC? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC 20-25A, 5.1.1.1****AMC1 CAT.GEN.MPA.141(a), para (h)** | Has the operator assessed the physical use of the device on the flight deck to include safe stowage, crashworthiness (mounting devices and EFBs, if installed), safety and use under normal environmental conditions including turbulence? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC 20-25A, 5.1.1.2** | Will the display be readable in all the ambient lighting conditions, both day and night, encountered on the flight deck? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 CAT.GEN.MPA.141(a), para (f)****AMC1 CAT.GEN.MPA.140, para (b), (c), (d)** | Has the operator demonstrated that the EFB will not electromagnetically interfere with the operation of aircraft equipment? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 SPA.EFB.100(b), para (d)** | Has the EFB been tested to confirm operation in the anticipated environmental conditions (e.g. temperature range, low humidity, altitude)? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  |  | Have procedures been developed to establish the level of battery capacity degradation during the life of the EFB? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC 20-25A, 5.1.1.3****AMC1 CAT.GEN.MPA.141(a), para (d)** | Is the capability of connecting the EFB to certified aircraft systems covered by an airworthiness approval? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 CAT.GEN.MPA.140** | When using the transmitting functions of a portable EFB during flight, has the operator ensured that the device does not electromagnetically interfere with the operation of the aircraft equipment in any way? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **ICAO Doc 10020, 1.3.10** | If two or more EFBs on the flight deck are connected to each other, has the operator demonstrated that this connection does not negatively affect otherwise independent EFB platforms? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC 20-25A, 5.1.1.2 (b)****AMC1 SPA.EFB.100(b), para (b)** | Can the brightness or contrast of the EFB display be easily adjusted by the flight crew for various lighting conditions? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC7 SPA.EFB.100(b)(3), para (a)(b)** | Does the COTS position source meet the criterias for receiver characterisation and are installation aspects considered? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC7 SPA.EFB.100(b)(3), para (c)** | Has a practical evaluation of the COTS position source been taken place? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **Mounting** |
|  | **AMC 20-25A, 5.1.1.1****GM1 Annex I, para (fc)****GM1 SPA.EFB.100(b), para (c)** | Has the installation of the mounting device been approved in accordance with the appropriate airworthiness regulations? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC 20-25A, 5.1.1.1****AMC1 CAT.GEN.MPA.141(a), para (h)(5)** | Is it evident that there are no mechanical interference issues between the EFB in its mounting device and any of the flight controls in terms of full and free movement, under all operating conditions and no interference with other equipment such as buckles, oxygen hoses, etc? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 CAT.GEN.MPA.141(a), para (h)(4)** | Has it been confirmed that the mounted EFB location does not impede crew ingress, egress and emergency egress path? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC 20-25A, 5.1.1.1,5.1.1.2****AMC1 CAT.GEN.MPA.141(a), para (b), (h)** | Is it evident that the mounted EFB does not obstruct visual or physical access to aircraft displays or controls? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC 20-25A, 5.1.1.2****AMC1 CAT.GEN.MPA.141(a), para (b)** | Does the mounted EFB location minimize the effects of glare and/or reflections? Is the EFB mounting easily adjustable by flight crew to compensate for glare and reflections? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC 20-25A, 5.1.1.1****AMC1 CAT.GEN.MPA.141(a), para (h)** | Does the mounting method for the EFB allow easy access to the EFB controls and a clear unobstructed view of the EFB display? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **ICAO Doc 10020, 1.3.9** | Does the placement of the EFB allow sufficient airflow around the unit, if required? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **Software Application** |
|  | **AMC1 CAT.GEN.MPA.141(b)****AMC3 CAT.GEN.MPA.141(b)****AMC4 SPA.EFB.100(b)** | Is the application considered an EFB Type B application? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 SPA.EFB.100.(b)(1), para (a) (5)** | Has the software application been evaluated to confirm that the information being provided to the pilot is a true and accurate representation of the documents or charts being replaced? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC5 SPA.EFB.100(b)(3)****AMC1 CAT.POL.MAB.105(b)** | Has the software application been evaluated to confirm that the computational solution(s) being provided to the pilot is a true and accurate solution (e.g. performance, and mass and balance (M&B))? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC3 SPA.EFB.100(b)(3), para (f)** | Does the software application have adequate security measures to ensure data integrity (e.g. preventing unauthorized manipulation)? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 SPA.EFB.100(b)(2), para (b)** | Does the EFB system provide, in general, a consistent and intuitive user interface, within and across the various hosted applications? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 SPA.EFB.100(b)(2), para (a), (b)(12)****AMC3 SPA.EFB.100(b)(3), para (c)** | Has the EFB software been evaluated to consider HMI and workload aspects? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 SPA.EFB.100(b)(2)****For M&B applications:****AMC5 SPA.EFB.100(b)(3), point (f)** | Does the software application follow HumanFactors guidance? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC3 SPA.EFB.100(b)(3), point (b)** | Can the flight crew easily determine the validity and currency of the software application and databases installed on the EFB, if required? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC9 SPA.EFB.100(b)(3)** | Has it been demonstrated that the criterias for the use of IFW (In-flight weather) applications are fulfilled? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC10 SPA.EFB.100(b)(3)** | Has it been demonstrated that the criterias for the use of applications displaying own-ship position in-flight (OSPIF) are fulfilled? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC6 SPA.EFB.100(b)(3)** | Has it been demonstrated that the criterias for the use of airport moving map display (AMMD) applications with own-ship position are fulfilled? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC8 SPA.EFB.100(b)(3)** | Has it been demonstrated that the criterias for the use of chart applications are fulfilled? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **Power Connection/ Batteries** |
|  | **ICAO Doc 10020, 1.3.6.3** | Is there a means, other than a circuit-breaker, to turn off the power source (e.g. can the pilot easily remove the plug from the installed outlet)? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 CAT.GEN.MPA.141(c), para****(c)** | Is the power source suitable for the device? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **ICAO Doc 10020, 1.3.7.2** | Have guidance/procedures been provided for battery failure or malfunction? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 SPA.EFB.100(b), para (c)** | Is power to the EFB, either by battery and/or supplied power, available to the extent required for the intended operation? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 CAT.GEN.MPA.140, para (f)** | Has the operator ensured that batteries are compliant to acceptable standards? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **Cabling** |
|  | **AMC 20-25A, 5.1.1.4****AMC1 CAT.GEN.MPA.141(a), para (e)** | Has the operator ensured that any cabling attached to the EFB, whether in the dedicated mounting or when handheld, does not present an operational or safety hazard (e.g. it does not interfere with flight controls movement, egress, oxygen mask deployment)? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **Stowage** |
|  | **ICAO Doc 10020, 1.3.13.1** | If there is no mounting device available, can the EFB be easily and securely stowed and readily accessible in-flight? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC 20.25A, 5.1.1.1, para (d)****AMC1 CAT.GEN.MPA.141(a), para (h)** | Is it evident that stowage does not cause any hazard during aircraft operations? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 CAT.GEN.MPA.141(a), para (h)** | Has the operator documented the location of its viewable stowage? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 CAT.GEN.MPA.141(a), para (h)** | Has the operator ensured that the stowage characteristics remain within acceptable limits for the proposed operations? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 CAT.GEN.MPA.141(a), para (h)** | Has the operator demonstrated that if the EFB moves or is separated from its stowage, or if the viewable stowage is unsecured from the aircraft (as a result of turbulence, manoeuvring, or other action), it will not interfere with flight controls, damage flight-deck equipment or injure flight crew? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **EFB Management** |
|  | **SPA.EFB.100, para (3)** | Is there an EFB management system in place? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 SPA.EFB.100(b)(3)** | Does one person possess an overview of the complete EFB system and responsibilities within the operator's management structure? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 SPA.EFB.100(b)(3)** | Are the authorities and responsibilities clearly defined within the EFB management system? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 SPA.EFB.100(b)(3)** | Are there adequate resources assigned for managing the EFB? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC2 SPA.EFB.100(b)(3), para (a)** | Are third party (e.g. software vendor) responsibilities clearly defined? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **ORO.GEN.200, para (a)(6)****AMC1 ORO.GEN.200(a)(6)** | Are internal inspections/audits of the EFB system integrated in the compliance monitoring system? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC3 ORO.MLR.100, para (a)****AMC2 SPA.EFB.100(b)(3)** | Is there a list and description of the software applications contained in the operations manual? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **SPA.EFB.100, para (b)(3)(ii)** | Are there procedures established by the operator to notify crews about changes in the EFB system? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC2 SPA.EFB.100(b)** | Are there procedures established by the operator to notify the competent authority about changes in the EFB system? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **Crew Procedures** |
|  | **AMC2 SPA.EFB.100(b)(3)** | Is there a clear description of the system, its operational philosophy and operational limitations? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC2 SPA.EFB.100(b)(3)** | Are the requirements for EFB availability in the operations manual and/or as part of the minimum equipment list (MEL)? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC2 SPA.EFB.100(b)(3)** | Have crew procedures for EFB operation been integrated within the existing operations manual? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC5 SPA.EFB.100(b)(3), para (c) CAT. POL.MPA. 105(b)** | Are there suitable crew cross-checks for verifying safety-critical data (e.g. performance, mass and balance (M&B) calculations)? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC3 SPA.EFB.100(b)(3)** | If an EFB generates information similar to that generated by existing flight-deck systems, do procedures identify which information will be primary? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC3 SPA.EFB.100(b)(3)** | Are there procedures when information provided by an EFB does not agree with that from other flight-deck sources or, if more than one EFB is used, when one EFB disagrees with another? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC2 SPA.EFB.100(b)(3)****AMC3 SPA.EFB.100(b)(3)** | Are there procedures that specify what actions to take if the software applications or databases loaded on the EFB are out of date? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 SPA.EFB.100(b)(1)** | Are there procedures in place to prevent the use of erroneous information by flight crews? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC3 SPA.EFB.100(b)(3), para (e)** | Is there a reporting system for system failures? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 SPA.EFB.100(b)(2), para (a)****(2), (b)(12)** | Have crew operating procedures been designed to mitigate and/or control additional workload created by using an EFB? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC3 SPA.EFB.100(b)(3), para (e)** | Are there procedures in place to inform maintenance and flight crews about a fault or failure of the EFB, including actions to isolate it until corrective action is taken? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **EFB Risk Assessment** |
|  | **AMC1 SPA.EFB.100(b)(1)** | Has an EFB risk assessment been performed? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 SPA.EFB.100(b)(1), para (a)** | Are there procedures/guidance for loss of data and identification of corrupt/erroneous outputs? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 SPA.EFB.100(b)(1), para (a)** | Are there contingency procedures for total or partial EFB failure? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 SPA.EFB.100(b)(1), para (b)** | Is there a procedure in the event of a dual EFB failure (e.g. use of a paper checklist or a thirdEFB)? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC3 SPA.EFB.100(b)(3), para (d)** | Have the EFB dispatch requirements (e.g. minimum number of EFBs on board) been incorporated into the operations manual? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC3 SPA.EFB.100(b)(3), para (d)** | Have MEL or procedures in case of EFB failure been considered and published? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **Training** |
|  | **AMC4 SPA.EFB.100(b)(3)** | Is the training material appropriate with respect to the EFB equipment and published procedures? Is it integrated in the respective OM? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **Hardware Management Procedures** |
|  | **AMC2 SPA.EFB.100(b)(3)** | Are there documented procedures for the control of EFB hardware configuration? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC3 SPA.EFB.100(b)(3), para (e)** | Do the procedures include maintenance of EFB equipment? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **Software Management Procedures** |
|  | **AMC2 SPA.EFB.100(b)(3)** | Are there documented procedures for the configuration control of loaded software and software access rights to the EFB? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 SPA.EFB.100(b)(1), para (b)(2)** | Are there adequate controls to prevent corruption of operating systems, software and databases? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC3 SPA.EFB.100(b)(3), para (f)** | Are there adequate security measures to prevent system degradation, malware and unauthorized access? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC3 SPA.EFB.100(b)(3), para (b)** | Are procedures defined to track database expiration/updates? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 SPA.EFB.100(b)(3), para (e)** | Are there documented procedures for the management of data integrity? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **AMC1 SPA.EFB.100(b)(3), para (c)** | If the hardware is assigned to the flight crew, does a policy on private use exist? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |
|  | **Final Operational Report** |
|  | **SPA.EFB.100, para (b)(4)** | Is the final operational report included in the EFB application? |  |  | [ ] N/A[ ]  C[ ]  NC[ ]  N/R |  |

**TKA rekomendacija tvirtinti leidimą arba pakeitimus**

*TCA Recommendation for approval:*

|  |  |
| --- | --- |
| ***Dokumento DVS registracijos nr.****DVS document registration nr.* |  |

|  |  |  |
| --- | --- | --- |
|  | **Inspektorius rekomenduojantis tvirtinti leidimą** (*vardas, pavardė, parašas (elektroninis parašas pripažįstamas tinkamu)*)*Inspector (Name/signature)* | **Data***Date* |
| **SPS inspektorius (-iai)***Flight operations inspector (FOI)* |  |  |
| **Kiti***Others* |  |  |