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| Operatör: | |
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| Tillståndsnummer: | Kontaktperson: |
|  |  |
| Transportstyrelsen | |
| Ärendenummer: | Handläggare: |
|  |  |
| Berörda sektioner/samråd: | |
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| Information | |
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| Denna checklista är avsedd som stöd vid notifiering om nytt EFB-system eller ny typ B EFB applikation och dess tillhörande funktioner.  Ange var i det operativa manualverket (eller i annat styrande dokument) momentet återfinns och detta så detaljerat som möjligt för att underlätta och påskynda granskning och handläggning.  Om en punkt inte är relevant, markera rutan med N/A. Relevanta bilagor ska bifogas notifieringen och referens till dessa ska anges i checklistan.  Formatet och strukturen i den operativa manualen bör följa den rekommenderade ordningen i ORO.MLR.100 med tillhörande AMC, om processer och procedurer är beskrivna i en speciell *EFB Policy- och procedurmanual* se GM1 SPA.EFB.100(b)(3). | |
|  | |
| Nytt EFB-system | |
| Flygplantyp/-er: | |
|  | |
| Hårdvara: | |
|  | |
| Typ B EFB applikation och dess tillhörande funktioner: | |
|  | |
| Ange var i ert manualverk dessa typ B EFB applikationer och dess tillhörande funktioner finns listade[[1]](#footnote-1): | |
|  | |
|  | |
| Ny typ B EFB applikation och dess tillhörande funktioner | |
| Flygplantyp/-er: | |
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| Typ B EFB applikation och dess tillhörande funktioner: | |
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| Frågor för operatören att besvara | | |
|  | Operatörens bedömning och förklaring: | TS notering: |
| 1. Har ni beskrivningar enligt definitioner i förordning (EU) nr 965/2012 Annex 1? |  |  |
| 2. Är punkt 8.9 i OM-A tillagd i er drifthandbok i enlighet med AMC3 ORO.MLR.100? |  |  |
| 3 Är era manualer överensstämmande med CAT.GEN.MPA.141? |  |  |
| 4. Har ni typbestämt de applikationer som används i er EFB (Typ A / Typ B) enligt CAT.GEN.MPA.141? |  |  |
| 5. Ingår Typ B-applikationen/-erna ni avser att använda i Management of Change-processen? |  |  |
| 6. Bedöms era Typ B-applikationer uppfylla Human Factors principles? |  |  |
| 7. Är ett system för hantering/administration av EFB framtaget? |  |  |
| 8. Inkluderar bolagets EFB-procedurer även element som underhåll och cybersäkerhet? |  |  |
| 9. Är processer och procedurer beskrivna i en speciell Policy och procedur-manual? ref.GM1 SPA.EFB.100(b)(3) |  |  |
| 10. Är fall-backprocedurer framtagna och dokumenterade? |  |  |
|  | | |
| **Operatörsanalys** | | |
|  | Kommentarer / Referens i OM / Bilaga nr: | TS notering: |
| Annex I  **Definitions**  DEFINITIONS OF TERMS USED IN THE ACCEPTABLE MEANS OF COMPLIANCE AND GUIDANCE MATERIAL |  |  |
| Annex III  **AMC3 ORO.MLR.100 Operations manual - General**  Contents - CAT OPERATIONS, A GENERAL/BASIC,  8. OPERATING PROCEDURES, 8.9 Procedures related to the use of type B EFB applications.. |  |  |
| Annex IV  **AMC1 CAT.GEN.MPA.140 Portable electronic devices**  TECHNICAL PREREQUISITES FOR THE USE OF PEDS |  |  |
| **GM1 CAT.GEN.MPA.140, Portable electronic devices**  DEFINITIONS |  |  |
| **GM3 CAT.GEN.MPA.140, Portable electronic devices**  Evaluation of cargo tracking devices |  |  |

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|  | Kommentarer / Referens i OM / Bilaga nr: | TS notering: |
| **CAT GEN.MPA.141 Use of electronic flight bags (EFBs)**  (a) Where an EFB is used on board an aircraft, the operator shall ensure that it does not adversely affect the performance of the aircraft systems or equipment, or the ability of the flight crew member to operate the aircraft.flights that depart from and arrive at the same aerodrome or operating site. |  |  |
| (b) The operator shall not use a type B EFB application unless it is approved in accordance with Subpart M of Annex V (Part-SPA). |  |  |
| **GM1 CAT.GEN.MPA.141 Use of elctronic flight bags (EFBs)**  DEFINITIONS |  |  |
| **GM2 CAT.GEN.MPA.141 Use of elctronic flight bags (EFBs)**  BACKGROUND INFORMATION. |  |  |
| **AMC1 CAT.GEN.MPA.141(a) Use of electronic flight bags (EFBs)**  HARDWARE (a) General |  |  |
| (b) Characteristics and placement of the EFB display For a portable EFB |  |  |
| (c) Power source |  |  |
| (d) EFB data connectivity |  |  |
| (e) external connecting cables |  |  |
| (f) electromagnetic interference (EMI) demonstrations |  |  |
| (g) Batteries |  |  |
| (h) Viewable stowage |  |  |
| **GM1 CAT.GEN.MPA.141(a) Use of electronic flight bags (EFBs)**  VIEWABLE STOWAGE |  |  |
| **AMC1 CAT.GEN.MPA.141(b) Use of electronic flight bags (EFBs)**  APPLICATION CLASSIFICATION |  |  |
| **AMC2 CAT.GEN.MPA.141(b) Use of electronic flight bags (EFBs)**  TYPICAL TYPE A APPLICATIONS |  |  |
| **AMC3 CAT.GEN.MPA.141(b) Use of electronic flight bags (EFBs)**  TYPICAL TYPE B APPLICATIONS |  |  |
| **GM1 CAT.GEN.MPA.141(b) Use of electronic flight bags (EFBs)**  TACTICAL USE |  |  |

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|  | Kommentarer / Referens i OM / Bilaga nr: | TS notering: |
| **GM2 CAT.GEN.MPA.141(b) Use of electronic flight bags (EFBs)**  HUMAN-MACHINE INTERFACE (HMI) FOR TYPE A EFB APPLICATIONS |  |  |
| Annex V  **SPA.EFB.100 Use of electronic flight bags (EFBs) - operational approval** (a) A commercial air transport operator shall only use a type B EFB application if the operator has been granted an approval by the competent authority for such use. |  |  |
| (b) In order to obtain an operational approval from the competent authority for the use of a type B EFB application, the operator shall provide evidence that:  (b)(1) a risk assessment related to the use of the EFB device that hosts the application and to the EFB application and its associated function(s) has been conducted, identifying the associated risks and ensuring that they are appropriately managed and mitigated; |  |  |
| (b)(2) the human–machine interfaces of the EFB device and the EFB application have been assessed against human factors principles; |  |  |
| (b)(3) it has established an EFB administration system and that procedures and training requirements for the administration and use of the EFB device and the EFB application have been established and implemented; these shall include procedures for: (i) operating the EFB; 20.12.2018 L 326/61 Official Journal of the European Union EN (ii) the management of changes to the EFB; (iii) the management of EFB data; (iv) EFB maintenance; and (v) EFB security; |  |  |
| (b)(4) the EFB host platform is suitable for the intended use of the EFB application. |  |  |
| This demonstration shall be specific to the EFB application and the EFB host platform on which the application is installed. |  |  |

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|  | Kommentarer / Referens i OM / Bilaga nr: | TS notering: |
| **AMC1 SPA.EFB.100(b) Use of electronic flight bags (EFBs) — operational approval**  SUITABILITY OF THE HARDWARE  (a) Placement of the display |  |  |
| (b) Display characteristics |  |  |
| (c) Power source |  |  |
| (d) Environmental testing |  |  |
| **AMC2 SPA.EFB.100(b) Use of electronic flight bags (EFBs) — Operational approval**  CHANGES |  |  |
| **AMC3 SPA.EFB.100(b) Use of electronic flight bags (EFBs)**  OPERATIONAL EVALUATION TESTS |  |  |
| **AMC4 SPA.EFB.100(b) Use of electronic flight bags (EFBs)**  EFB APPLICATIONS WITH ETSO AUTHORISATIONS |  |  |
| **GM1 SPA.EFB.100(b) Use of electronic flight bags (EFBs) — Operational approval**  FINAL OPERATIONAL REPORT *(denna ska skickas in efter genomförd operativ evalueringsperiod)* |  |  |
| **GM2 SPA.EFB.100(b) Use of electronic flight bags (EFBs) — Operational approval**  EVALUATION BY EASA |  |  |
| **AMC1 SPA.EFB.100(b)(1) Use of electronic flight bags (EFBs) — Operational approval**  RISK ASSESSMENT |  |  |
| **AMC1 SPA.EFB.100(b)(2) Use of electronic flight bags (EFBs) — Operational approval**  HUMAN–MACHINE INTERFACE ASSESSMENT AND HUMAN FACTORS CONSIDERATIONS |  |  |
| **AMC1 SPA.EFB.100(b)(3) Use of electronic flight bags (EFBs) — Operational approval**  EFB ADMINISTRATOR |  |  |
| **AMC2 SPA.EFB.100(b)(3) Use of electronic flight bags (EFBs) — Operational approval**  EFB POLICY AND PROCEDURES MANUAL |  |  |

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|  | Kommentarer / Referens i OM / Bilaga nr: | TS notering: |
| **AMC3 SPA.EFB.100(b)(3) Use of electronic flight bags (EFBs) — Operational approval**  PROCEDURES  (a) General |  |  |
| (b) Flight crew awareness of EFB software/database revision |  |  |
| (c) Procedures to mitigate and /or control workload |  |  |
| (d) Dispatch |  |  |
| (e) Maintenance |  |  |
| (f) Security |  |  |
| (g) Electronic signature |  |  |
| **AMC4 SPA.EFB.100(b)(3) Use of electronic flight bags (EFBs) — Operational approval**  FLIGHT CREW TRAINING |  |  |
| **AMC5 SPA.EFB.100(b)(3) Use of electronic flight bags (EFBs) — Operational approval**  PERFORMANCE AND MASS AND BALANCE APPLICATIONS |  |  |
| **AMC6 SPA.EFB.100(b)(3) Use of electronic flight bags (EFBs) — Operational approval**  AIRPORT MOVING MAP DISPLAY (AMMD) APPLICATION WITH OWN-SHIP POSITION |  |  |
| **AMC7 SPA.EFB.100(b)(3) Use of electronic flight bags (EFBs) — Operational approval**  USE OF COMMERCIAL OFF-THE-SHELF GNSS RECEIVERS |  |  |
| **AMC8 SPA.EFB.100(b)(3) Use of electronic flight bags (EFBs) — Operational approval**  CHART APPLICATIONS |  |  |
| **AMC9 SPA.EFB.100(b)(3) Use of electronic flight bags (EFBs) — Operational approval** IN-FLIGHT WEATHER APPLICATIONS |  |  |
| **AMC10 SPA.EFB.100(b)(3) Use of electronic flight bags (EFBs) — Operational approval**  APPLICATIONS DISPLAYING OWN-SHIP POSITION IN-FLIGHT |  |  |
| **GM1 SPA.EFB.100(b)(3) Use of electronic flight bags (EFBs) — Operational approval**  EFB POLICY AND PROCEDURES MANUAL |  |  |
| **GM2 SPA.EFB.100(b)(3) Use of electronic flight bags (EFBs) — Operational approval**  FLIGHT CREW TRAINING |  |  |
| **GM3 SPA.EFB.100(b)(3) Use of electronic flight bags (EFBs) — Operational approval**  SECURITY |  |  |

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|  | Kommentarer / Referens i OM / Bilaga nr: | TS notering: |
| **GM4 SPA.EFB.100(b)(3) Use of electronic flight bags (EFBs) — Operational approval**  IN-FLIGHT WEATHER APPLICATIONS |  |  |
| **GM5 SPA.EFB.100(b)(3) Use of electronic flight bags (EFBs) — Operational approval**  USE OF COMMERCIAL OFF-THE-SHELF (COTS) POSITION SOURCE – PRACTICAL EVALUATION |  |  |
| **GM6 SPA.EFB.100(b)(3) Use of electronic flight bags (EFBs) — Operational approval**  APPLICATION DISPLAYING OWN-SHIP POSITION IN FLIGHT |  |  |

1. Insertion of the list of type B EFB applications together with the reference of the EFB hardware (for portable EFBs). This list is contained either in the operations specifications or in the operations manual. In the latter case, the related operations specifications must make a reference to the related page in the operations manual. [↑](#footnote-ref-1)