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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Operator name**: | **IT.AOC.** | | **A/C type:** | | | | | **Location:** | |
| **SPA.EFB Approval** 🞎 **Portable 🞎 Installed 🞎** | | | | | | | | | |
| Implementing Rule reference: (EU) 965/2012 as amended | | Y: Applicable  N: not applicable | | | |  | | | |
| **Subject** | | | | | Y | N | OPERATOR’S DOCUMENTATION REFERENCE | | REF |
| *Procedure in place for Use of PEDs, including T-PEDs, in the flight crew compartment* | | | | |  |  |  | | CAT.GEN.MPA.  140(e) |
| *The conditions for the use of PEDs in-flight are specified in the operations manual* | | | | |  |  |  | |
| *The PEDs do not pose a loose item risk or other hazard* | | | | |  |  |  | |
| *EFB used does not adversely affect the performance of the aircraft systems or equipment, or the ability of the flight crew member to operate the aircraft.* | | | | |  |  |  | | CAT.GEN.MPA.  141 |
| *All type B EFB applications are approved i.a.w. Part-SPA* | | | | |  |  |  | |
| *Application classification and determination of an application type A/B* | | | | |  |  |  | | AMC1CAT.GEN.MPA.141(b) |
| ***Portable EFB - Hardware assessment performed by the operator***  *(a) General assessment*  *(b) Characteristics and placement of the EFB display*  *(c)Power source*  *(d) EFB data connectivity*  *(e) External connecting cables (to avionics and/or power sources)*  *(f) Electromagnetic interference (EMI) demonstrations*  *(g) Batteries*  *(h) Viewable stowage (EFB support)* | | | | |  |  |  | | AMC1CAT.GEN.MPA.141(a) |
| ***Suitability of the hardware***  *Placement and characteristics of the display*  *Power source*  *Environmental testing (testing for rapid decompression)* | | | | |  |  |  | | AMC1 SPA.EFB.100(b) |
| ***Changes******– procedures in OM***  *Modifications to an EFB system that do not require prior approval*  *Modifications to an EFB system that require prior approval i.a.w. ARO.GEN.310(c)* | | | | |  |  |  | | AMC2 SPA.EFB.100(b) |
| ***Operational evaluation test***  *Notification to ENAC including all necessary information, (6 months or less if approved by ENAC)*  *Operational evaluation test plan*  *Duration of evaluation test (6 months standard or reduced taking into account criterias)*  *Final operational report* | | | | |  |  |  | | AMC3 SPA.EFB.100(b) |
| ***Risk Assessment***  *- Performed before the beginning of the trial period for all type B EFB applications and hardware*  *- Amended accordingly, if necessary, at the end of this trial period*  *- Evaluate the risks associated with the use of an EFB, included losses of functions / malfunctions*  *- Analyse the operational consequences of these failure scenarios*  *- Establish mitigating measures* | | | | |  |  |  | | SPA.EFB.100(b)(1AMC1 |
| ***Human–machine interface******(HMI)***  *- Assessment for each kind of device and application in EFB, integration of the EFB into the flight deck environment, both physical and cognitive ergonomics*  *- Consistent and intuitive user interface*  *- Usability of the input device (mouse, keyboard, ..).* | | | | |  |  |  | | SPA.EFB.100(b)(2  AMC1 |
| *- Consistency between EFBs and applications and with flight deck applications*  - *Messages and the use of colours*  *- Flight crew workload* | | | | |  |  |  | | SPA.EFB.100(b)(2  AMC1 |
| ***EFB administrator***  *- Nominated responsible for the administration of the EFB system within the operator’s organization*  *- Continuity of the management of the EFB system in the absence of the EFB administrator*  *- Appropriate training for the role*  *- Good knowledge of the proposed system hardware, operating system and applications*  *- Good knowledge of the appropriate regulatory requirements related to the use of EFBs* | | | | |  |  |  | | SPA.EFB. 100 (b)(3  AMC1 |
| ***EFB policy and procedures manual****,*  *Procedures documented in an fully or partially integrated in the O.M. (items in GM1 SPA.EFB.100(b)(3))* | | | | |  |  |  | | AMC2 SPA.EFB.  100(b)(3) |
| ***EFB security***  *Procedure to maintain security and integrity (system security, access security, protection against malicious software)**(GM3 SPA.EFB.100(b)(3))* | | | | |  |  |  | |
| ***Procedures for Flight Crew Member***  *(a) General procedure on action to be taken in case of inconsistency of EFB info with other souces*  *(b) Flight crew awareness of EFB software/database revisions and update*  *(c) Procedures to mitigate and/or control workload created by EFB*  *(d) dispatch criteria for EFB systems and actions in case of EFB deficiency/failure*  *(e) routine maintenance of the EFB system*  *(f) adequate security procedures to protect the system from unauthorized intervention*  *(g) Security procedures for electronic signatures when issuing or accepting a document in EFB*  *applications (e.g. load sheet, technical logbook, notification to captain, ..).* | | | | |  |  |  | | AMC3 SPA.EFB. 100(b)(3) |
| ***Flight Crew Training and syllabus reported in OMD***  *Initial and Recurrent EFB training*  *Training and checking (OPC, Line Check,RT) syllabi and form include EFB evaluation*  *Recurrent training ground and flight include EFB related issues*  *(GM2 SPA.EFB.100(b)(3))* | | | | |  |  |  | | AMC4 SPA.EFB. 100(b)(3) |
| ***Performance and mass and balance applications***  *(a) General*  *(b)Testing and demonstration of the compliance*  *(c) flight crew procedures concerning take-off and landing performance or mass & balance*  *(d)Training*  *(e)diagram displaying the mass and its associated centre-of-gravity (CG) position*  *(f) Human-factors-specific considerations regarding data provided by the application to FCM* | | | | |  |  |  | | AMC5 SPA.EFB.  100(b)(3) |
| *Airport moving map display (****AMMD****) application with own-ship position* | | | | |  |  |  | | AMC6 SPA.EFB.  100(b)(3) |
| *Use of commercial off-the-shelf (****COTS****) position source used for AMMD EFB applications and for EFB applications displaying the own-ship position in-flight* | | | | |  |  |  | | AMC7 SPA.EFB.  100(b)(3) |
| *Navigation charts applications* | | | | |  |  |  | | AMC8 SPA.EFB.  100(b)(3) |
| *In-flight weather applications (****IFW****) enabling to access meteorological information to increase situational awareness and to supportmaking strategic decisions.* | | | | |  |  |  | | AMC9 SPA.EFB.  100(b)(3) |
| *Applications displaying own-ship position in flight* | | | | |  |  |  | | AMC10SPA.EFB.  100(b)(3) |
| **HARDWARE** | | | | | | | | | |
|  | | | | | | | | | |
| **SOFTWARE APPLICATIONS :** | | | | | | | | | |
| **Type A** | | | | **Type B** | | | | | |
| **Remarks :** | | | | | | | | | |

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| **NOMINATED PERSON FLIGHT OPERATIONS**  **NOMINATED PERSON CREW TRAINING**  **COMPLANCE MONITORING MANAGER** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |