



Boletim Especial de Aeronavegabilidade (*Special Airworthiness Bulletin*)

ATA: Not applicable.

Subject: Software ePerfManager or other not certified software, and which may be used in Embraer S.A. EMB-135 (), EMB-145 (), ERJ-170 () and ERJ-190 () airplanes.

BEA Nº 2017-02

Date: October 10, 2017

Introduction:

This Special Airworthiness Bulletin (BEA) provides information to owners and operators of Embraer S.A. EMB-135 (), EMB-145 (), ERJ-170 () and ERJ-190 () airplanes that use any version of the ePerfManager software or other not certified software, on Electronic Portable Devices (EPD).

This BEA warns pilots and operators of the risks of using a commercially available software, in lieu of using the approved Airplane Flight Manual (AFM).

This document presents informative and non-mandatory information, thus until this time, the airworthiness concern is not an unsafe condition that would warrant an Airworthiness Directive (AD) according Regulamento Brasileiro de Aviação Civil (RBAC) 39 requirements.

Manufacturer: Embraer S.A.

Aeronautical Product Affected: Embraer S.A. EMB-135 (), EMB-145 (), ERJ-170 () and ERJ-190 () airplanes.

Background:

It has been identified a misbehavior during importing airport databases process when utilizing ePerfManager software in the following cases:

- a) ePerfManager version 5.2.0 and previous versions, and
- b) Airport database in xml format, and
- c) Runways with intersections, and
- d) Obstacle distance referenced to the beginning of *Takeoff Run Available* (TORA).

In this scenario, the ePerfManager imports runway intersections as new runways. During the runway creation, the obstacle distances referenced to the beginning of TORA are not adjusted accordingly. Therefore, the ePerf calculation results are affected.

Although the manufacturer states that the solution for the above problem is available on ePerfManager 5.2.1 software version as mentioned in Embraer Operational Bulletin N^o 145-001/17, dated August 29, 2017, or Embraer Operational Bulletin N^o 170-001/17, dated August 29, 2017, as applicable; it is important to highlight this is not a certified software.

Recommendation:

Operating an airplane in a manner that doesn't follow the approved manuals increases the possibility of running afoul of regulations such as the section 91.9 of Regulamento Brasileiro de Homologação Aeronáutica (RBHA) 91, as well as section 91.13 of RBHA 91, which prohibits operation of an aircraft in a careless or reckless manner.

Therefore, the ANAC always recommends the utilization of the applicable approved AFM for the correct airplane operation.

References:

- 1) Embraer Operational Bulletin N^o 145-001/17, dated August 29, 2017.
- 2) Embraer Operational Bulletin N^o 170-001/17, dated August 29, 2017.

For information, contact

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