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## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Part 39

[Docket No. FAA-2020-1035; Project Identifier MCAI-2020-01017-T; Amendment 39-21430; AD 2021-04-09]

RIN 2120-AA64

### **Airworthiness Directives; Yaborã Industria Aeronáutica S.A. (Type Certificate Previously Held by Embraer S.A.) Airplanes**

**AGENCY:** Federal Aviation Administration (FAA), Department of Transportation (DOT).

**ACTION:** Final rule.

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**SUMMARY:** The FAA is adopting a new airworthiness directive (AD) for certain Yaborã Industria Aeronáutica S.A. Model EMB-135, EMB-145, -145EP, -145ER, -145LR, -145MP, -145MR, and -145XR airplanes. This AD was prompted by reports that calculations provided by the automatic takeoff thrust control system (ATTCS) are incorrect under certain conditions. This AD requires updating the software of the installed full authority digital engine control (FADEC) systems, as specified in an Agência Nacional de Aviação Civil (ANAC) AD, which is incorporated by reference. The FAA is issuing this AD to address the unsafe condition on these products.

**DATES:** This AD is effective March 30, 2021.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of March 30, 2021.

**ADDRESSES:** For ANAC material incorporated by reference (IBR) in this AD, contact National Civil Aviation Agency (ANAC), Aeronautical Products Certification Branch (GGCP), Rua Dr. Orlando Feirabend Filho, 230–Centro Empresarial Aquarius–Torre B–Andares 14 a 18, Parque Residencial Aquarius, CEP 12.246-190–São José dos Campos–SP, BRAZIL, Tel: 55 (12) 3203-6600; Email: pac@anac.gov.br; internet www.anac.gov.br/en/. You may find this IBR material on the ANAC website at <https://sistemas.anac.gov.br/certificacao/DA/DAE.asp>. You may view this IBR material at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195. It is also available in the AD docket on the internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2020-1035.

## Examining the AD Docket

You may examine the AD docket on the internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2020-1035; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this final rule, any comments received, and other information. The address for Docket Operations is U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, DC 20590.

**FOR FURTHER INFORMATION CONTACT:** Kathleen Arrigotti, Aerospace Engineer, Large Aircraft Section, International Validation Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; telephone and fax 206-231-3218; email [kathleen.arrigotti@faa.gov](mailto:kathleen.arrigotti@faa.gov).

## SUPPLEMENTARY INFORMATION:

### Discussion

The ANAC, which is the aviation authority for Brazil, has issued ANAC AD 2020-07-02, effective July 21, 2020 (ANAC AD 2020-07-02) (also referred to as the Mandatory Continuing Airworthiness Information, or the MCAI), to correct an unsafe condition for certain Yaborã Industria Aeronáutica S.A. Model EMB-135, EMB-145, -145EP, -145ER, -145LR, -145MP, -145MR, and -145XR airplanes. Model EMB-145EU, EMB-145LU, and EMB-145MK airplanes are not certificated by the FAA and are not included on the U.S. type certificate data sheet; this AD therefore does not include those airplanes in the applicability.

The FAA issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 by adding an AD that would apply to certain Yaborã Industria Aeronáutica S.A. Model EMB-135, EMB-145, -145EP, -145ER, -145LR, -145MP, -145MR, and -145XR airplanes. The NPRM published in the Federal Register on November 27, 2020 (85 FR 75964). The NPRM was prompted by reports that calculations provided by the ATTCS are incorrect under certain conditions. The NPRM proposed to require updating the software of the installed FADEC systems, as specified in ANAC AD 2020-07-02.

### Comments

The FAA gave the public the opportunity to participate in developing this final rule. The FAA received no comments on the NPRM or on the determination of the cost to the public.

### Changes Made to This AD

Paragraph (c) of this AD has been revised to correct the reference to Model EMB-145ER airplanes.

Certain paragraph designations have been corrected in the regulatory text of this AD.

### Conclusion

The FAA reviewed the relevant data and determined that air safety and the public interest require adopting this final rule with the changes described previously and minor editorial changes. The FAA has determined that these minor changes:

- Are consistent with the intent that was proposed in the NPRM for addressing the unsafe condition; and
- Do not add any additional burden upon the public than was already proposed in the NPRM.

The FAA also determined that these changes will not increase the economic burden on any operator or increase the scope of this final rule.

### **Related Service Information Under 1 CFR Part 51**

ANAC AD 2020-07-02 describes procedures for updating the software of the installed FADEC systems to version B9.4 or B9.4.1. This material is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in the ADDRESSES section.

### **Costs of Compliance**

The FAA estimates that this AD affects 494 airplanes of U.S. registry. The FAA estimates the following costs to comply with this AD:

#### **Estimated Costs for Required Actions**

<b>Labor cost</b>	<b>Parts cost</b>	<b>Cost per product</b>	<b>Cost on U.S. operators</b>
5 work-hours × \$85 per hour = \$425	\$0	\$425	\$209,950

### **Authority for This Rulemaking**

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. Subtitle VII: Aviation Programs, describes in more detail the scope of the Agency's authority.

The FAA is issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701: General requirements. Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

### **Regulatory Findings**

This AD will not have federalism implications under Executive Order 13132. This AD will not have a substantial direct effect on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify that this AD:

- (1) Is not a “significant regulatory action” under Executive Order 12866,
- (2) Will not affect intrastate aviation in Alaska, and
- (3) Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

### **List of Subjects in 14 CFR Part 39**

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

## **Adoption of the Amendment**

Accordingly, under the authority delegated to me by the Administrator, the FAA amends 14 CFR part 39 as follows:

### **PART 39–AIRWORTHINESS DIRECTIVES**

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

#### **§ 39.13 [Amended]**

2. The FAA amends § 39.13 by adding the following new airworthiness directive:



## AIRWORTHINESS DIRECTIVE

**2021-04-09 Yaborã Industria Aeronáutica S.A. (Type Certificate Previously Held by Embraer S.A.):** Amendment 39-21430; Docket No. FAA-2020-1035; Project Identifier MCAI-2020-01017-T.

**(a) Effective Date**

This airworthiness directive (AD) is effective March 30, 2021.

**(b) Affected ADs**

None.

**(c) Applicability**

This AD applies to Yaborã Industria Aeronáutica S.A. Model EMB-135BJ, -135ER, -135KE, -135KL, and -135LR airplanes; and Model EMB-145, -145EP, -145ER, -145LR, -145MP, -145MR, and -145XR airplanes; certificated in any category; as identified in Agência Nacional de Aviação Civil (ANAC) AD 2020-07-02, effective July 21, 2020 (ANAC AD 2020-07-02).

**(d) Subject**

Air Transport Association (ATA) of America Code 73, Engine fuel and control.

**(e) Reason**

This AD was prompted by reports that calculations provided by the automatic takeoff thrust control system (ATTCS) are incorrect under certain conditions. The FAA is issuing this AD to address the risk of over-prediction of the operational margins, without the necessary alert being provided to the flightcrew in some situations. This condition, if not corrected, could lead to a performance reduction during takeoff, in which case the airplane may not be able to take off safely.

**(f) Compliance**

Comply with this AD within the compliance times specified, unless already done.

**(g) Requirements**

Except as specified in paragraph (h) of this AD: Comply with all required actions and compliance times specified in, and in accordance with, ANAC AD 2020-07-02.

**(h) Exceptions to ANAC AD 2020-07-02**

(1) Where ANAC AD 2020-07-02 refers to its effective date, this AD requires using the effective date of this AD.

(2) The “Alternative method of compliance (AMOC)” section of ANAC AD 2020-07-02 does not apply to this AD.

**(i) Other FAA AD Provisions**

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, Large Aircraft Section, International Validation Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or responsible Flight Standards Office, as appropriate. If sending information directly to the Large Aircraft Section, International Validation Branch, send it to the attention of the person identified in paragraph (j) of this AD. Information may be emailed to: 9-AVS-AIR-730-AMOC@faa.gov. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the responsible Flight Standards Office.

(2) Contacting the Manufacturer: For any requirement in this AD to obtain instructions from a manufacturer, the instructions must be accomplished using a method approved by the Manager, Large Aircraft Section, International Validation Branch, FAA; or ANAC; or ANAC's authorized Designee. If approved by the ANAC Designee, the approval must include the Designee's authorized signature.

**(j) Related Information**

For more information about this AD, contact Kathleen Arrigotti, Aerospace Engineer, Large Aircraft Section, International Validation Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; telephone and fax 206-231-3218; email [kathleen.arrigotti@faa.gov](mailto:kathleen.arrigotti@faa.gov).

**(k) Material Incorporated by Reference**

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) You must use this service information as applicable to do the actions required by this AD, unless this AD specifies otherwise.

(i) Agência Nacional de Aviação Civil (ANAC) AD 2020-07-02, effective July 21, 2020.

(ii) [Reserved]

(3) For ANAC AD 2020-07-02, contact National Civil Aviation Agency (ANAC), Aeronautical Products Certification Branch (GGCP), Rua Dr. Orlando Feirabend Filho, 230–Centro Empresarial Aquarius–Torre B–Andares 14 a 18, Parque Residencial Aquarius, CEP 12.246-190–São José dos Campos–SP, BRAZIL, Tel: 55 (12) 3203-6600; Email: [pac@anac.gov.br](mailto:pac@anac.gov.br); internet [www.anac.gov.br/en/](http://www.anac.gov.br/en/). You may find this IBR material on the ANAC website at <https://sistemas.anac.gov.br/certificacao/DA/DAE.asp>.

(4) You may view this material at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195. This material may be found in the AD docket on the internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2020-1035.

(5) You may view this material that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, email [fedreg.legal@nara.gov](mailto:fedreg.legal@nara.gov), or go to: <https://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued on February 5, 2021.

Gaetano A. Sciortino,

Deputy Director for Strategic Initiatives, Compliance & Airworthiness Division, Aircraft  
Certification Service.

[FR Doc. 2021-03586 Filed 2-22-21; 8:45 am]