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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2024-1704; Project Identifier MCAI-2023-01204-T; Amendment 39-22865; AD 2024-20-06]

RIN 2120-AA64

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

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: The FAA is adopting a new airworthiness directive (AD) for certain Embraer S.A. Model ERJ 190-100 STD, -100 LR, -100 IGW, -200 STD, -200 LR, and -200 IGW airplanes. This AD was prompted by a manufacturing quality escape concerning certain overheat detection system (ODS) sensing elements. This AD requires inspecting the ODS sensing elements and performing applicable corrective actions, and prohibits the installation of affected parts, 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 November 29, 2024.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of November 29, 2024.

ADDRESSES:

AD Docket: You may examine the AD docket at [regulations.gov](https://www.regulations.gov) under Docket No. FAA-2024-1704; 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, the mandatory continuing airworthiness information

(MCAI), 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.

Material Incorporated by Reference:

- For ANAC material identified in this AD, contact 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; telephone 55 (12) 3203-6600; email pac@anac.gov.br; website anac.gov.br/en/. You may find this material on the ANAC website at sistemas.anac.gov.br/certificacao/DA/DAE.asp.

- 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. It is also available at [regulations.gov](https://www.regulations.gov) under Docket No. FAA-2024-1704.

FOR FURTHER INFORMATION CONTACT:

Krista Greer, Aviation Safety Engineer, FAA, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; phone: 206-231-3221; email: krista.greer@faa.gov.

SUPPLEMENTARY INFORMATION:

Background

The FAA issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 by adding an AD that would apply to certain Embraer S.A. Model ERJ 190-100 STD, -100 LR, -100 IGW, -200 STD, -200 LR, and -200 IGW airplanes. The NPRM published in the **Federal Register** on July 16, 2024 (89 FR 57795). The NPRM was prompted by AD 2023-11-02, effective November 21, 2023, issued by ANAC, which is the aviation authority for Brazil (ANAC AD 2023-11-02) (also referred to as the MCAI). The MCAI states that a quality escape occurred during manufacturing concerning some ODS sensing elements produced before January 31, 2021.

In the NPRM, the FAA proposed to require inspecting the ODS sensing elements and performing applicable corrective actions, as specified in ANAC AD 2023-11-02. The NPRM also proposed to prohibit the installation of affected parts. The FAA is issuing this AD to address defective sensing

elements. The unsafe condition, if not addressed, could result in a sensing element not being able to detect a thermal bleed leak, which is a latent failure, and, depending on the affected area, may start an ignition source in the fuel tank, which could damage some electronic boxes and expose the wing structure to high temperature gradients and unexpected thermal loads, which could result in reduced structural integrity of the airplane.

You may examine the MCAI in the AD docket at [regulations.gov](https://www.regulations.gov) under Docket No. FAA-2024-1704.

Discussion of Final Airworthiness Directive

Comments

The FAA received a comment from Air Line Pilots Association, International (ALPA), who supported the NPRM without change.

Conclusion

This product has been approved by the aviation authority of another country and is approved for operation in the United States. Pursuant to the FAA's bilateral agreement with this State of Design Authority, it has notified the FAA of the unsafe condition described in the MCAI referenced above. The FAA reviewed the relevant data, considered the comment received, and determined that air safety requires adopting this AD as proposed. Accordingly, the FAA is issuing this AD to address the unsafe condition on this product. Except for minor editorial changes, this AD is adopted as proposed in the NPRM. None of the changes will increase the economic burden on any operator.

Material Incorporated by Reference Under 1 CFR Part 51

ANAC AD 2023-11-02 specifies procedures for a detailed inspection of the ODS sensing elements of the airplane bleed lines and replacement, if applicable, and procedures for re-activation of ODS sensing elements that were deactivated during the detailed inspection. ANAC AD 2023-11-02 also defines and prohibits the installation of an affected ODS sensing element unless the affected part passed an inspection, indicated by a marking on one face of the connector hex nut.

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 90 airplanes of U.S. registry. The

FAA estimates the following costs to comply with this AD:

ESTIMATED COSTS FOR REQUIRED ACTIONS

Labor cost	Parts cost	Cost per product	Cost on U.S. operators
Up to 26 work-hours × \$85 per hour = Up to \$2,210	\$0	Up to \$2,210	Up to \$198,900.

The FAA estimates the following costs to do any necessary on-condition action that would be required based on

the results of any required actions. The FAA has no way of determining the

number of aircraft that might need this on-condition action:

ESTIMATED COSTS OF ON-CONDITION ACTIONS

Labor cost	Parts cost	Cost per product
2 work-hours × \$85 per hour = \$170	\$500	\$670

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.

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:

2024–20–06 Embraer S.A. (Type Certificate Previously Held by Yaborã Indústria Aeronáutica S.A.): Amendment 39–22865; Docket No. FAA–2024–1704; Project Identifier MCAI–2023–01204–T.

(a) Effective Date

This airworthiness directive (AD) is effective November 29, 2024.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Embraer S.A. (Type Certificate previously held by Yaborã Indústria Aeronáutica S.A.) Model ERJ 190–100 IGW, –100 LR, –100 STD, –200 IGW, –200 LR, and –200 STD airplanes, certificated in any category, as identified in Agência Nacional de Aviação Civil (ANAC) AD 2023–11–02, effective November 21, 2023 (ANAC AD 2023–11–02).

(d) Subject

Air Transport Association (ATA) of America Code 28, Fuel.

(e) Unsafe Condition

This AD was prompted by a manufacturing quality escape concerning certain overheat detection system (ODS) sensing elements. The FAA is issuing this AD to address defective sensing elements. The unsafe condition, if not addressed, could result in a sensing element not being able to detect a thermal bleed leak, which is a latent failure, and, depending on the affected area, may start an ignition source in the fuel tank, which could damage some electronic boxes and expose the wing structure to high temperature gradients and unexpected thermal loads, which could result in reduced structural integrity of the airplane.

(f) Compliance

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

(g) Requirements

Except as specified in paragraphs (h) and (i) of this AD: Comply with all required actions and compliance times specified in, and in accordance with, ANAC AD 2023–11–02.

(h) Exceptions to ANAC AD 2023–11–02

(1) Where ANAC AD 2023–11–02 refers to its effective date, this AD requires using the effective date of this AD.

(2) Where paragraph (b)(1) of ANAC AD 2023–11–02 specifies “Within 5,000 Flight Hours (FH) or 24 months,” for this AD, replace that text with “Within 7,500 Flight Hours (FH) or 36 months.”

(3) Where paragraphs (c)(1), (d)(1), (e)(1), (f)(1), and (g)(1) of ANAC AD 2023–11–02 specify “Within 5,000 FH or 24 months,” for this AD, replace that text with “Within 7,500 FH or 36 months.”

(4) Where paragraphs (b)(1), (c)(1), (d)(1), (e)(1), (f)(1), and (g)(1) of ANAC AD 2023–11–02 specify to inspect ODS sensing elements at various locations, this AD requires adding “in accordance with Embraer Service Bulletin 190–36–0027, Revision 02, dated September 5, 2023; or later revisions approved by ANAC.”

(5) Where paragraphs (b) through (h) of ANAC AD 2023–11–02 specify on-condition actions based on the results of the ODS sensing element inspections required by paragraphs (b)(1), (c)(1), (d)(1), (e)(1), (f)(1), and (g)(1) of ANAC AD 2023–11–02, this AD requires performing all applicable on-condition actions before further flight after each inspection.

(6) This AD does not adopt paragraph (k) of ANAC AD 2023–11–02.

(7) Where paragraph (l) of ANAC AD 2023–11–02 specifies “Record compliance with this [ANAC] AD in the applicable maintenance log book,” for this AD, record compliance with this FAA AD.

(i) No Return of Parts Requirement

Although the material referenced in ANAC AD 2023–11–02 specifies to send removed parts to the manufacturer, this AD does not include that requirement.

(j) Special Flight Permit

Special flight permits, as described in 14 CFR 21.197 and 21.199, are not allowed.

(k) Additional AD Provisions

The following provisions also apply to this AD:

(1) *Alternative Methods of Compliance (AMOCs)*: The Manager, 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 manager of the International Validation Branch, mail it to the address identified in paragraph (l) of this AD. Information may be emailed to: 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, 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.

(3) *Required for Compliance (RC)*: Except as required by paragraphs (i) and (k)(2) of this AD, if any material referenced in ANAC AD 2023–11–02 contains steps in the Accomplishment Instructions or figures that are labeled as RC, the instructions in RC steps, including subparagraphs under an RC step and any figures identified in an RC step, must be done to comply with this AD; any steps including substeps under those steps, that are not identified as RC are recommended. The instructions in steps, including substeps under those steps, not identified as RC may be deviated from using accepted methods in accordance with the operator's maintenance or inspection program without obtaining approval of an AMOC, provided the instructions identified as RC can be done and the airplane can be put back in an airworthy condition. Any substitutions or changes to instructions

identified as RC require approval of an AMOC. If a step or substep is labeled “RC Exempt,” then the RC requirement is removed from that step or substep.

(l) Additional Information

For more information about this AD, contact Krista Greer, Aviation Safety Engineer, FAA, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; phone: 206–231–3221; email: krista.greer@faa.gov.

(m) Material Incorporated by Reference

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

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

(i) Agência Nacional de Aviação Civil (ANAC) AD 2023–11–02, effective November 21, 2023.

(ii) [Reserved]

(3) For ANAC material identified in this AD, contact 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; telephone 55 (12) 3203–6600; email pac@anac.gov.br; website anac.gov.br/en/. You may find this material on the ANAC website at 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 Street, Des Moines, WA. For information on the availability of this material at the FAA, call 206–231–3195.

(5) You may view this material at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, visit www.archives.gov/federal-register/cfr/ibr-locations or email fr.inspection@nara.gov.

Issued on October 4, 2024.

Peter A. White,

Deputy Director, Integrated Certificate Management Division, Aircraft Certification Service.

[FR Doc. 2024–24453 Filed 10–23–24; 8:45 am]

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA–2024–1892; Project Identifier MCAI–2024–00198–T; Amendment 39–22860; AD 2024–20–01]

RIN 2120–AA64

Airworthiness Directives; Airbus SAS Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: The FAA is superseding Airworthiness Directive (AD) 2023–07–13 which applied to certain Airbus SAS Model A350–941 and –1041 airplanes. AD 2023–07–13 required repetitive detailed inspections of the lower attachment studs on the AFT galley complex and, depending on findings, replacement of the lower attachment studs. This AD was prompted by a determination that additional airplanes are affected, and that all affected parts must be replaced with serviceable parts. This AD continues to require the actions in AD 2023–07–13, adds airplanes to the applicability, and requires the replacement of all affected parts; as specified in European Union Aviation Safety Agency (EASA) 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 November 29, 2024.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of November 29, 2024.

ADDRESSES:

AD Docket: You may examine the AD docket at regulations.gov under Docket No. FAA–2024–1892; 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, the mandatory continuing airworthiness information (MCAI), 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.

Material Incorporated by Reference:

- For EASA material identified in this AD, contact EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; telephone +49 221 8999 000; email ADS@easa.europa.eu; website easa.europa.eu. You may find this material on the EASA website at ad.easa.europa.eu.

- 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. It is also available at regulations.gov under Docket No. FAA–2024–1892.

FOR FURTHER INFORMATION CONTACT: Dat Le, Aviation Safety Engineer, FAA, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516–228–7300; email dat.v.le@faa.gov.

SUPPLEMENTARY INFORMATION: