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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2012-1223; Directorate Identifier 2012-NM-154-AD; Amendment 39-17348; AD 2013-03-13]

RIN 2120-AA64

Airworthiness Directives; Embraer S.A. Airplanes

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

ACTION: Final rule.

SUMMARY: We are adopting a new airworthiness directive (AD) for certain Embraer S.A. Model ERJ 170 and ERJ 190 airplanes. This AD was prompted by reports of the cockpit door falling off the hinges when it is being opened or closed. This AD requires replacing the striker and quick-release pin of the passive lock of the cockpit door, and replacing the upper and lower hinges of the cockpit door. We are issuing this AD to prevent the cockpit door from falling off the hinges, which could cause injury to airplane occupants.

DATES: This AD becomes effective March 19, 2013.

The Director of the Federal Register approved the incorporation by reference of certain publications listed in this AD as of March 19, 2013.

ADDRESSES: You may examine the AD docket on the Internet at <http://www.regulations.gov> or in person at the U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE., Washington, DC.

FOR FURTHER INFORMATION CONTACT: Cindy Ashforth, Aerospace Engineer, International Branch, ANM-116, Transport Airplane Directorate, FAA, 1601 Lind Avenue SW., Renton, WA 98057-3356; telephone (425) 227-2768; fax (425) 227-1149.

SUPPLEMENTARY INFORMATION:

Discussion

We issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 to include an AD that would apply to the specified products. That NPRM was published in the Federal Register on

December 6, 2012 (77 FR 72776). That NPRM proposed to correct an unsafe condition for the specified products. The Mandatory Continuing Airworthiness Information (MCAI) states:

This [Agência Nacional de Aviação Civil (ANAC)] AD was prompted by reports of cockpit door falling off the hinges when it is being opened or closed. If not corrected, this condition may cause injury to the occupants.

* * * * *

You may obtain further information by examining the MCAI in the AD docket.

Comments

We gave the public the opportunity to participate in developing this AD. We considered the comment received. The Air Line Pilots Association, International (ALPA) supports the intent of the NPRM (77 FR 72776, December 6, 2012).

Conclusion

We reviewed the available data, including the comment received, and determined that air safety and the public interest require adopting the AD as proposed—except for minor editorial changes. We have determined that these minor changes:

- Are consistent with the intent that was proposed in the NPRM (77 FR 72776, December 6, 2012) for correcting the unsafe condition; and
- Do not add any additional burden upon the public than was already proposed in the NPRM (77 FR 72776, December 6, 2012).

Costs of Compliance

We estimate that this AD will affect 253 products of U.S. registry. We also estimate that it will take about 6 work-hours per product to comply with the basic requirements of this AD. The average labor rate is \$85 per work-hour. Required parts will cost about \$0 per product. Where the service information lists required parts costs that are covered under warranty, we have assumed that there will be no charge for these parts. As we do not control warranty coverage for affected parties, some parties may incur costs higher than estimated here. Based on these figures, we estimate the cost of this AD to the U.S. operators to be \$129,030 or \$510 per product.

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.

We are 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

We determined that 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. Is not a "significant rule" under the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979);
3. Will not affect intrastate aviation in Alaska; and
4. 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.

We prepared a regulatory evaluation of the estimated costs to comply with this AD and placed it in the AD docket.

Examining the AD Docket

You may examine the AD docket on the Internet at <http://www.regulations.gov>; or in person at the Docket Operations office between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains the NPRM (77 FR 72776, December 6, 2012), the regulatory evaluation, any comments received, and other information. The street address for the Docket Operations office (telephone (800) 647-5527) is in the ADDRESSES section. Comments will be available in the AD docket shortly after receipt.

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 AD:



2013-03-13 Embraer S.A.: Amendment 39-17348. Docket No. FAA-2012-1223; Directorate Identifier 2012-NM-154-AD.

(a) Effective Date

This airworthiness directive (AD) becomes effective March 19, 2013.

(b) Affected ADs

None.

(c) Applicability

This AD applies to the airplanes identified in paragraphs (c)(1) and (c)(2) of this AD.

(1) Embraer S.A. Model ERJ 170-100 LR, -100 STD, -100 SE., and -100 SU airplanes; and Model ERJ 170-200 LR, -200 SU, and -200 STD airplanes; certificated in any category; as identified in EMBRAER Service Bulletin 170-52-0055, Revision 01, dated August 1, 2011.

(2) Embraer S.A. Model ERJ 190-100 STD, -100 LR, -100 ECJ, and -100 IGW airplanes; and Model ERJ 190-200 STD, -200 LR, and -200 IGW airplanes; certificated in any category; as identified in EMBRAER Service Bulletin 190-52-0038, Revision 01, dated August 1, 2011, and EMBRAER Service Bulletin 190LIN-52-0020, dated August 1, 2011.

(d) Subject

Air Transport Association (ATA) of America Code 52, Doors.

(e) Reason

This AD was prompted by reports of the cockpit door falling off the hinges when it is being opened or closed. We are issuing this AD to prevent the cockpit door from falling off the hinges, which could cause injury to airplane occupants.

(f) Compliance

You are responsible for having the actions required by this AD performed within the compliance times specified, unless the actions have already been done.

(g) Required Actions and Compliance Time

Within 1,500 flight hours after the effective date of this AD, do the actions specified in paragraphs (g)(1) and (g)(2) of this AD.

(1) Replace the striker and quick-release pin of the passive lock of the cockpit door, in accordance with Part I of the Accomplishment Instructions of the applicable service bulletin specified in paragraph (g)(1)(i), (g)(1)(ii), or (g)(1)(iii) of this AD.

- (i) EMBRAER Service Bulletin 170-52-0055, Revision 01, dated August 1, 2011 (for Model ERJ 170 airplanes).
 - (ii) EMBRAER Service Bulletin 190-52-0038, Revision 01, dated August 1, 2011 (for Model ERJ 190 airplanes except for Model ERJ 190-100 ECJ airplanes).
 - (iii) EMBRAER Service Bulletin 190LIN-52-0020, dated August 1, 2011 (for Model ERJ 190-100 ECJ airplanes).
- (2) Replace the cockpit door upper and lower hinges in accordance with Part III of the Accomplishment Instructions of the applicable service bulletin specified in paragraph (g)(2)(i), (g)(2)(ii), or (g)(2)(iii) of this AD.
- (i) EMBRAER Service Bulletin 170-52-0055, Revision 01, dated August 1, 2011 (for Model ERJ 170 airplanes).
 - (ii) EMBRAER Service Bulletin 190-52-0038, Revision 01, dated August 1, 2011 (for Model ERJ 190 airplanes except for Model ERJ 190-100 ECJ airplanes).
 - (iii) EMBRAER Service Bulletin 190LIN-52-0020, dated August 1, 2011 (for Model ERJ 190-100 ECJ airplanes).

(h) Credit for Previous Actions

This paragraph provides credit for actions required by paragraph (g)(1) of this AD, if those actions were performed before the effective date of this AD using EMBRAER Service Bulletin 170-52-0055, dated February 10, 2011 (for Model ERJ 170 airplanes); or EMBRAER Service Bulletin 190-52-0038, dated February 10, 2011 (for Model ERJ 190 airplanes except for Model ERJ 190-100 ECJ airplanes); which are not incorporated by reference in this AD.

(i) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, International Branch, ANM-116, Transport Airplane Directorate, 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 local Flight Standards District Office, as appropriate. If sending information directly to the International Branch, send it to ATTN: Cindy Ashforth, Aerospace Engineer, International Branch, ANM-116, Transport Airplane Directorate, FAA, 1601 Lind Avenue SW., Renton, WA 98057-3356; telephone (425) 227-2768; fax (425) 227-1149. Information may be emailed to: 9-ANM-116-AMOC-REQUESTS@faa.gov. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office. The AMOC approval letter must specifically reference this AD.

(2) Airworthy Product: For any requirement in this AD to obtain corrective actions from a manufacturer or other source, use these actions if they are FAA-approved. Corrective actions are considered FAA-approved if they are approved by the State of Design Authority (or their delegated agent). You are required to assure the product is airworthy before it is returned to service.

(j) Related Information

Refer to MCAI Brazilian Airworthiness Directives 2012-08-02 and 2012-08-03, both effective September 5, 2012, and the service bulletins identified in paragraphs (j)(1), (j)(2), and (j)(3) of this AD, for related information.

- (1) EMBRAER Service Bulletin 170-52-0055, Revision 01, dated August 1, 2011.
- (2) EMBRAER Service Bulletin 190-52-0038, Revision 01, dated August 1, 2011.
- (3) EMBRAER Service Bulletin 190LIN-52-0020, dated August 1, 2011.

(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 the AD specifies otherwise.

(i) EMBRAER Service Bulletin 170-52-0055, Revision 01, dated August 1, 2011.

(ii) EMBRAER Service Bulletin 190-52-0038, Revision 01, dated August 1, 2011.

(iii) EMBRAER Service Bulletin 190LIN-52-0020, dated August 1, 2011.

(3) For service information identified in this AD contact Embraer S.A., Technical Publications Section (PC 060), Av. Brigadeiro Faria Lima, 2170–Putim–12227-901 São Jose dos Campos–SP–BRASIL; telephone +55 12 3927-5852 or +55 12 3309-0732; fax +55 12 3927-7546; email distrib@embraer.com.br; Internet <http://www.flyembraer.com>.

(4) You may review copies of the service information at the FAA, Transport Airplane Directorate, 1601 Lind Avenue SW., Renton, WA. For information on the availability of this material at the FAA, call 425-227-1221.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: <http://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Renton, Washington, on February 1, 2013.

Ali Bahrami,
Manager, Transport Airplane Directorate,
Aircraft Certification Service.