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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2016-6668; Directorate Identifier 2014-NM-149-AD; Amendment 39-18627; AD 2016-17-14]

RIN 2120-AA64

Airworthiness Directives; Saab AB, Saab Aeronautics (Type Certificate Previously Held by Saab AB, Saab Aerosystems) Airplanes

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

ACTION: Final rule.

SUMMARY: We are adopting a new airworthiness directive (AD) for certain Saab AB, Saab Aeronautics Model SAAB 2000 airplanes. This AD was prompted by a report that on some airplanes, during the paint removal process for repainting the airplane, the basic corrosion protection (anodizing and primer) coating was sanded down to bare metal on the aluminum skin panels, and the bare metal might not have been treated correctly for corrosion prevention. This AD requires an inspection of structural components of the airplane for any damaged protective coating; inspections of those areas for pitting corrosion, if necessary; a thickness measurement to determine if there is reduced skin thickness, if necessary; and repair, if necessary. We are issuing this AD to detect and correct damaged protective coatings. This condition could result in pitting corrosion damage; and reduced metal thickness, which could result in reduced static and fatigue strength of the airplane's structural parts.

DATES: This AD is effective October 13, 2016.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of October 13, 2016.

ADDRESSES: For service information identified in this final rule, contact Saab AB, Saab Aeronautics, SE-581 88, Linköping, Sweden; telephone +46 13 18 5591; fax +46 13 18 4874; email saab2000.techsupport@saabgroup.com; Internet <http://www.saabgroup.com>. You may view this referenced 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. It is also available on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2016-6668.

Examining the AD Docket

You may examine the AD docket on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2016-6668; or in person at the Docket Management Facility between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this AD, the regulatory evaluation, any comments received, and other information. The street address for the Docket Office (telephone 800-647-5527) is Docket Management Facility, 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: Shahram Daneshmandi, Aerospace Engineer, International Branch, ANM-116, Transport Airplane Directorate, FAA, 1601 Lind Avenue SW., Renton, WA 98057-3356; telephone 425-227-1112; fax 425-227-1149.

SUPPLEMENTARY INFORMATION:

Discussion

We issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 by adding an AD that would apply to certain Saab AB, Saab Aeronautics Model SAAB 2000 airplanes. The NPRM published in the Federal Register on May 13, 2016 (81 FR 29807) ("the NPRM"). The NPRM was prompted by a report that on some airplanes, during the paint removal process for repainting the airplane, the basic corrosion protection (anodizing and primer) coating was sanded down to bare metal on the aluminum skin panels, and the bare metal might not have been treated correctly for corrosion prevention. The NPRM proposed to require an inspection of structural components of the airplane for any damaged protective coating; inspections of those areas for pitting corrosion, if necessary; a thickness measurement to determine if there is reduced skin thickness, if necessary; and repair, if necessary. We are issuing this AD to detect and correct damaged protective coatings. This condition could result in pitting corrosion damage; and reduced metal thickness, which could result in reduced static and fatigue strength of the airplane's structural parts.

The European Aviation Safety Agency (EASA), which is the Technical Agent for the Member States of the European Union, has issued EASA Airworthiness Directive 2014-0160, dated July 9, 2014 (Correction: July 9, 2014) (referred to after this as the Mandatory Continuing Airworthiness Information, or "the MCAI"), to correct an unsafe condition for certain Saab AB, Saab Aeronautics Model SAAB 2000 airplanes. The MCAI states:

SAAB received evidence that on a number of SAAB 2000 aeroplanes, during paint removal before repainting, the basic corrosion protection anodizing and primer were removed. In these cases, the basic corrosion protection coating was sanded down to bare metal on the aluminium [aluminum] skin panel in spite of existing instruction(s) contained in the Structural Repair Manual (SRM) which prohibit(s) exposing the aluminium bare metal. Due to the fact that the skin panels are manufactured from aluminium without a protective covering (unclad), the anodizing and primer is the corner stone of the aeroplane corrosion protection system. If the anodizing and primer is removed and the aluminium surface is not correctly treated, pitting corrosion may occur. In addition, sanding to bare metal can inadvertently lead to metal removal and subsequently reduce the static and fatigue strength of the aeroplane structural parts.

This condition, if not detected and corrected, could result in corrosion damage and/or reduced structural strength of the aeroplane structure.

To address this potential unsafe condition, SAAB issued SB 2000-51-002 to provide inspection instructions.

For the reasons described above, this [EASA] AD requires a one-time [detailed] inspection [for damage] * * * of required anticorrosion protective coating [e.g., bonding primer], [detailed] inspection for pitting corrosion (if necessary) [, a dye penetrant inspection for pitting corrosion (if necessary)] and measure the skin thickness (if necessary) [to determine if there is reduced skin thickness] and, depending on findings, corrective action(s) [e.g., repair].

This [EASA] AD is re-issued to correct typographical error of the effective date.

You may examine the MCAI in the AD docket on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2016-6668.

Comments

We gave the public the opportunity to participate in developing this AD. We received no comments on the NPRM or on the determination of the cost to the public.

Conclusion

We reviewed the relevant data and determined that air safety and the public interest require adopting this 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 for correcting the unsafe condition; and
- Do not add any additional burden upon the public than was already proposed in the NPRM.

Related Service Information Under 1 CFR Part 51

We reviewed Saab Service Bulletin 2000-51-002, Revision 01, dated May 23, 2014. This service information describes procedures for an inspection of structural components of the airplane for any damaged protective coating; inspections of those areas for pitting corrosion; a thickness measurement to determine if there is reduced skin thickness; and repair. This service information 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

We estimate that this AD affects 8 airplanes of U.S. registry.

We also estimate that it takes about 20 work-hours per product to comply with the basic requirements of this AD. The average labor rate is \$85 per work-hour. Based on these figures, we estimate the cost of this AD on U.S. operators to be \$13,600, or \$1,700 per product.

In addition, we estimate that any necessary follow-on actions will take about 45 work-hours, for a cost of \$3,825 per product. We have no way of determining the number of aircraft that might need these actions. We have received no definitive data that will enable us to provide cost estimates for the parts cost of the follow-on actions specified in this AD.

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.

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 (AD):



2016-17-14 Saab AB, Saab Aeronautics (Type Certificate previously held by Saab AB, Saab Aerosystems): Amendment 39-18627; Docket No. FAA-2016-6668; Directorate Identifier 2014-NM-149-AD.

(a) Effective Date

This AD is effective October 13, 2016.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Saab AB, Saab Aeronautics (Type Certificate previously held by Saab AB, Saab Aerosystems) Model SAAB 2000 airplanes, certificated in any category, all manufacturer serial numbers, excluding the airplanes specified in paragraphs (c)(1) and (c)(2) of this AD.

(1) Those airplanes identified in Table 1 of Saab Service Bulletin 2000-51-002, Revision 01, dated May 23, 2014, on which an applicable "Related Statement" identified in Table 1 was accomplished.

(2) Those airplanes that either have retained the original paint or have been repainted by Saab AB, Saab Aeronautics.

(d) Subject

Air Transport Association (ATA) of America Code 51, Standard Practices/Structures.

(e) Reason

This AD was prompted by a report that on some airplanes, during the paint removal process for repainting the airplane, the basic corrosion protection (anodizing and primer) coating was sanded down to bare metal on the aluminum skin panels, and the bare metal might not have been treated correctly for corrosion prevention. We are issuing this AD to detect and correct damaged protective coatings. This condition could result in pitting corrosion damage; and reduced metal thickness, which could result in reduced static and fatigue strength of the airplane's structural parts.

(f) Compliance

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

(g) Inspection, Related Investigative Actions, and Corrective Action

(1) Within 2,000 flight hours or 12 months after the effective date of this AD, whichever occurs first: Do a detailed inspection of the airplane structural parts to detect damaged protective coating (e.g., bonding primer), in accordance with the Accomplishment Instructions of Saab Service Bulletin

2000-51-002, Revision 01, dated May 23, 2014. If any damaged protective coating is found, before further flight, do a detailed inspection of the airplane structural parts to detect pitting corrosion and, if no pitting corrosion is found, do a dye penetrant inspection of the airplane structural parts to detect pitting corrosion and a thickness measurement to determine if there is reduced skin thickness, as applicable, in accordance with the Accomplishment Instructions of Saab Service Bulletin 2000-51-002, Revision 01, dated May 23, 2014.

(2) If, during any inspection required by paragraph (g)(1) of this AD, any damage (such as pitting corrosion or damaged primer) or reduced skin thickness is detected, as defined in Saab Service Bulletin 2000-51-002, Revision 01, dated May 23, 2014, before further flight, contact the Manager, International Branch, ANM-116, Transport Airplane Directorate, FAA; or the European Aviation Safety Agency (EASA); or Saab AB, Saab Aeronautics' EASA Design Organization Approval (DOA) for a repair method, and do the repair within the compliance time indicated in those instructions.

(h) Credit for Previous Actions

This paragraph provides credit for actions required by paragraph (g) of this AD, if those actions were performed before the effective date of this AD using Saab Service Bulletin 2000-51-002, dated April 9, 2014, which is 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: Shahram Daneshmandi, Aerospace Engineer, International Branch, ANM-116, Transport Airplane Directorate, FAA, 1601 Lind Avenue SW., Renton, WA 98057-3356; telephone 425-227-1112; 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) Contacting the Manufacturer: For any requirement in this AD to obtain corrective actions from a manufacturer, the action must be accomplished using a method approved by the Manager, International Branch, ANM-116, Transport Airplane Directorate, FAA; or the European Aviation Safety Agency (EASA); or Saab AB, Saab Aeronautics' EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

(j) Related Information

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA Airworthiness Directive 2014-0160, dated July 9, 2014 (Correction: July 9, 2014), for related information. This MCAI may be found in the AD docket on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2016-6668.

(2) Service information identified in this AD that is not incorporated by reference is available at the addresses specified in paragraphs (k)(3) and (k)(4) of this AD.

(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) Saab Service Bulletin 2000-51-002, Revision 01, dated May 23, 2014.

(ii) Reserved.

(3) For service information identified in this AD, contact Saab AB, Saab Aeronautics, SE-581 88, Linköping, Sweden; telephone +46 13 18 5591; fax +46 13 18 4874; email saab2000.techsupport@saabgroup.com; Internet <http://www.saabgroup.com>.

(4) You may view this 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 August 18, 2016.

Dorr M. Anderson,
Acting Manager, Transport Airplane Directorate,
Aircraft Certification Service.