

(2) For PW1919G, PW1921G, PW1922G, PW1923G, and PW1923G-A model turbofan engines, the installation of EEC FADEC software required by paragraph (g)(5) of this AD terminates the repetitive BSI requirements of paragraphs (g)(1) and (2) of this AD.

(i) Installation Prohibition

After the effective date of this AD, do not install EEC FADEC software earlier than version V2.11.10.4 or version V9.5.6.7 onto any engine identified in paragraph (c) of this AD.

(j) Definitions

(1) For the purpose of this AD, a “zero time spare” is an engine that had zero flight hours time-in-service when it was installed on an airplane after the airplane had entered service.

(2) For the purpose of this AD, “EEC FADEC software that is eligible for installation” is EEC FADEC software version V2.11.10.4 or later for PW1519G, PW1521G, PW1521G-3, PW1521GA, PW1524G, PW1524G-3, PW1525G, PW1525G-3 model turbofan engines and EEC FADEC software version V9.5.6.7 or later for PW1919G, PW1921G, PW1922G, PW1923G, and PW1923G-A model turbofan engines.

(k) Alternative Methods of Compliance (AMOCs)

(1) The Manager, ECO 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 local Flight Standards District Office, as appropriate. If sending information directly to the manager of the certification office, send it to the attention of the person identified in Related Information. You may email your request to ANE-AD-AMOC@faa.gov.

(2) 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.

(3) AMOCs approved for AD 2019-21-11 (84 FR 57813, October 29, 2019) are approved as AMOCs for the corresponding provisions of this AD except for paragraphs (g)(1)(i) through (iv) and (g)(3)(i) and (ii) of this AD.

(l) Related Information

For more information about this AD, contact Nicholas Paine, Aviation Safety Engineer, ECO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone: (781) 238-7116; fax: (781) 238-7199; email: nicholas.j.paine@faa.gov.

(m) Material Incorporated by Reference

None.

Issued on June 23, 2021.

Lance T. Gant,

Director, Compliance & Airworthiness Division, Aircraft Certification Service.

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2020-1174; Project Identifier MCAI-2019-00135-E; Amendment 39-21594; AD 2021-12-07]

RIN 2120-AA64

Airworthiness Directives; Rolls-Royce Deutschland Ltd & Co KG (Type Certificate Previously Held by Rolls-Royce Deutschland GmbH, Formerly BMW Rolls-Royce GmbH) Turbofan Engines

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: The FAA is adopting a new airworthiness directive (AD) for certain Rolls-Royce Deutschland Ltd & Co KG (RRD) BR700-710A1-10, BR700-710A2-20 and BR700-710C4-11 model turbofan engines. This AD was prompted by an investigation by RRD, which revealed a quality escape during the high-pressure turbine (HPT) stage 1 disk rim cooling air hole manufacturing process. This AD requires removing affected HPT disks from service prior to reaching specified compliance times or at the next engine shop visit, whichever occurs first. The FAA is issuing this AD to address the unsafe condition on these products.

DATES: This AD is effective August 12, 2021.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of August 12, 2021.

ADDRESSES: For service information identified in this AD, contact Rolls-Royce Deutschland Ltd & Co KG, Eschenweg 11, Dahlewitz 15827, Germany; phone: +49 33 7086 4040; email: rrd.techhelp@rolls-royce.com. You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 1200 District Avenue, Burlington, MA 01803. For information on the availability of this material at the FAA, call (781) 238-7759. It is also available at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2020-1174.

Examining the AD Docket

You may examine the AD docket at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2020-1174; 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.

FOR FURTHER INFORMATION CONTACT:

Wego Wang, Aviation Safety Engineer, ECO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone: (781) 238-7134; fax: (781) 238-7199; email: wego.wang@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 RRD BR700-710A1-10, BR700-710A2-20 and BR700-710C4-11 model turbofan engines. The NPRM published in the **Federal Register** on January 21, 2021 (86 FR 6271). The NPRM was prompted by an investigation by RRD, which revealed a quality escape during the HPT stage 1 disk rim cooling air hole manufacturing process. In the NPRM, the FAA proposed to require removing affected HPT disks from service prior to reaching specified compliance times or at the next engine shop visit, whichever occurs first. The FAA is issuing this AD to address the unsafe condition on these products.

The European Union Aviation Safety Agency (EASA), which is the Technical Agent for the Member States of the European Community, has issued EASA AD 2019-0299, dated December 10, 2019 (referred to after this as “the MCAI”), to address the unsafe condition on these products. The MCAI states:

An occurrence was reported of an HPT stage 1 disc burst on an industrial gas turbine engine. Subsequent investigation revealed a quality escape during HPT stage 1 disc rim cooling air hole manufacturing process. A review revealed that 28 HPT stage 1 discs were subject to a similar quality escape, two of which have been recovered and removed from service. The consequence of this manufacturing error is that the affected parts can no longer safely reach their Declared Safe Cyclic Life (DSCL).

This condition, if not corrected, may lead to failure of an affected part, possibly resulting in release of high-energy debris, with consequent damage to, and/or reduced control of, the aeroplane. To address this potentially unsafe condition, RRD issued the NMSB, providing instructions to remove the engine from service for in-shop replacement of the affected part.

For the reasons described above, this [EASA] AD reduces the DSCL for the affected

parts, requires identification of the affected parts and removal from service of each affected engine for replacement of the affected part. This [EASA] AD also prohibits (re)installation of affected parts.

You may obtain further information by examining the MCAI in the AD docket at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2020-1174.

Discussion of Final Airworthiness Directive

Comments

The FAA received comments from two commenters. The commenters were the Air Line Pilots Association, International (ALPA) and an anonymous commenter. ALPA supported the NPRM without change. The anonymous commenter supported the NPRM but stated their opinion on the estimated costs.

Request for Rolls-Royce To Share Replacement Part Cost

An anonymous commenter indicated that Rolls-Royce could share the cost of new HPT disks since it was their manufacturing process that caused the defects in the HPT disks.

The FAA does not determine who pays for the costs of an AD. The Estimated Costs paragraph indicates that, according to the manufacturer, all of the costs of this AD may be covered under a manufacturer warranty, thereby reducing the cost impact on affected operators.

Conclusion

The FAA reviewed the relevant data, considered the comments 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 these products. Except for minor editorial changes, this AD is adopted as proposed in the NPRM.

Related Service Information Under 1 CFR Part 51

The FAA reviewed Rolls-Royce Alert Non-Modification Service Bulletin (NMSB) SB-BR700-72-A900659, Revision 1, dated November 5, 2019 (the NMSB). The Alert NMSB provides the part numbers and serial numbers for affected HPT disks, the serial numbers for all engines with an affected HPT disk installed, and instructions for replacement of the affected HPT disk. 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 ADDRESSES.

Costs of Compliance

The FAA estimates that this AD affects 21 engines installed on airplanes of U.S. registry.

The FAA estimates the following costs to comply with this AD:

ESTIMATED COSTS

Action	Labor cost	Parts cost	Cost per product	Cost on U.S. operators
Replace HPT disk	20 work-hours × \$85 per hour = \$1,700	\$550,000	\$551,700	\$11,585,700

The FAA has included all known costs in its cost estimate. According to the manufacturer, however, all of the costs of this AD may be covered under warranty, thereby reducing the cost impact on affected operators.

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 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:

2021-12-07 Rolls-Royce Deutschland Ltd & Co KG (Type Certificate previously held by Rolls-Royce Deutschland GmbH, formerly BMW Rolls-Royce GmbH): Amendment 39-21594; Docket No. FAA-2020-1174; Project Identifier MCAI-2019-00135-E.

(a) Effective Date

This AD is effective August 12, 2021.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Rolls-Royce Deutschland Ltd & Co KG (RRD) (Type Certificate previously held by Rolls-Royce Deutschland GmbH, formerly BMW Rolls-Royce GmbH) BR700-710A1-10, BR700-710A2-20 and BR700-710C4-11 model turbofan engines with a high-pressure turbine (HPT) stage 1 disk having a part number and serial number listed in Planning Information, paragraph 1.A., of Rolls-Royce Alert Non-

Modification Service Bulletin (NMSB) SB-BR700-72-A900659, Revision 1, dated November 5, 2019, installed.

(d) Subject

Joint Aircraft System Component (JASC) Code 7230, Turbine Engine Compressor Section.

(e) Unsafe Condition

This AD was prompted by an investigation by RRD, which revealed a quality escape during the HPT stage 1 disk rim cooling air hole manufacturing process. The FAA is issuing this AD to prevent failure of the HPT stage 1 disk. The unsafe condition, if not addressed, could result in the release of high-energy debris, damage to the airplane, and reduced control of the airplane.

(f) Compliance

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

(g) Required Actions

Before the affected HPT stage 1 disk exceeds 2,840 flight cycles (FCs) since new, or within 60 days after the effective date of this AD, whichever occurs later, but not to exceed 8 years after the effective date of this AD if using FCs, remove the affected HPT stage 1 disk from service and replace with a part eligible for installation. Guidance on replacing the HPT stage 1 disk can be found in the Accomplishment Instructions, paragraph 3.B., of Rolls-Royce Alert Non-Modification Service Bulletin (NMSB) SB-BR700-72-A900659, Revision 1, dated November 5, 2019.

(h) Installation Prohibition

After the effective date of this AD, do not install any affected HPT stage 1 disk onto any engine.

(i) Definition

For the purpose of this AD, a "part eligible for installation" is an HPT stage 1 disk that is not listed in paragraph 1.A. of Rolls-Royce Alert NMSB SB-BR700-72-A900659, Revision 1, dated November 5, 2019.

(j) Alternative Methods of Compliance (AMOCs)

(1) The Manager, ECO 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 local Flight Standards District Office, as appropriate. If sending information directly to the manager of the certification office, send it to the attention of the person identified in Related Information. You may email your request to: ANE-AD-AMOC@faa.gov.

(2) 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.

(k) Related Information

(1) For more information about this AD, contact Wego Wang, Aviation Safety Engineer, ECO Branch, FAA, 1200 District

Avenue, Burlington, MA 01803; phone: (781) 238-7134; fax: (781) 238-7199; email: wego.wang@faa.gov.

(2) Refer to European Union Aviation Safety Agency (EASA) AD 2019-0299, dated December 10, 2019, for more information. You may examine the EASA AD in the AD docket on at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2020-1174.

(l) 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) Rolls-Royce Alert Non-Modification Service Bulletin SB-BR700-72-A900659, Revision 1, dated November 5, 2019.

(ii) [Reserved]

(3) For service information identified in this AD, contact Rolls-Royce Deutschland Ltd & Co KG, Eschenweg 11, Dahlewitz 15827, Germany; phone: +49 33 7086 4040; email: rrd.techhelp@rolls-royce.com.

(4) You may view this service information at FAA, Airworthiness Products Section, Operational Safety Branch, 1200 District Avenue, Burlington, MA 01803. For information on the availability of this material at the FAA, call (781) 238-7759.

(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, email: fedreg.legal@nara.gov, or go to: <https://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued on June 14, 2021.

Gaetano A. Sciortino,

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

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DEPARTMENT OF HOMELAND SECURITY

Coast Guard

33 CFR Part 165

[Docket No. USCG-2021-0296]

Safety Zones; Recurring Safety Zones in Captain of the Port Sault Sainte Marie

AGENCY: Coast Guard, Department of Homeland Security (DHS).

ACTION: Notice of enforcement of regulation.

SUMMARY: The Coast Guard will enforce certain safety zones located in the Federal regulations for Annual Events in the Captain of the Port Sault Sainte

Marie. This action is necessary and intended to protect the safety of life and property on navigable waters prior to, during, and immediately after these events. During each enforcement period, no person or vessel may enter the respective safety zone without the permission of the Captain of the Port Sault Sainte Marie or a designated representative.

DATES: The regulations in 33 CFR 165.918 as listed in Table 165.918 will be enforced for the events and times as stated in the **SUPPLEMENTARY INFORMATION** below.

FOR FURTHER INFORMATION CONTACT: If you have questions about this publication, call or email LT Deaven Palenzuela, Waterways Management division, Coast Guard Sector Sault Sainte Marie, U.S. Coast Guard; telephone 906-635-3223, email ssmprevention@uscg.mil.

SUPPLEMENTARY INFORMATION: The Coast Guard will enforce the Safety Zones; Annual Events in the Captain of the Port Buffalo Zone listed in 33 CFR 165.918 for the following events:

i. *Elk Rapids Harbor Days Fireworks; Elk Rapids, MI:* The safety zone listed in Table 165.918(20) will be enforced on August 7, 2021, from 10 p.m. through 10:30 p.m. on all U.S. navigable waters within the arc of a circle with an approximate 750-foot radius from the fireworks launch site located on a barge in position 44°54'6.95" N, 85°25'3.11" W.

ii. *Nautical City Fireworks, Rogers City:* The safety zone listed in Table 165.918(21) will be enforced on August 8, 2021, from 10 p.m. through 10:30 p.m. on all U.S. navigable waters within the arc of a circle with an approximate 750-foot radius from the fireworks launch site located near Harbor View Road in position 45°25'04.72" N, 83°47'51.21" W.

This action is being taken to provide for the safety of life on navigable waterways during the fireworks displays. The regulations for safety zones within the Captain of the Port Sault Sainte Marie Zone, § 165.918, apply for these fireworks displays.

Pursuant to 33 CFR 165.23, entry into, transiting, or anchoring within these safety zones during an enforcement period is prohibited unless authorized by the Captain of the Port Buffalo or their designated representative; designation need not be in writing. Those seeking permission to enter these safety zones may request permission from the Captain of the Port Buffalo via channel 16, VHF-FM. Vessels and persons granted permission to enter the safety zone shall obey the directions of