specified in AD 2007–07–03 have also failed. The FAA is issuing this AD to address potential hot air leakage from original fiberglass fabric material or high temperature composite material TADDs that can cause damage to the center wing fuel tank secondary fuel barrier coating and primary sealant, which can cause fuel leakage into an ignition zone, possibly resulting in a fire or explosion.

(f) Compliance

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

(g) Required Actions

Except as specified by paragraph (h) of this AD: At the applicable times specified in the "Compliance," paragraph of Boeing Alert Requirements Bulletin 747–21A2577 RB, dated February 18, 2020, do all applicable actions identified in, and in accordance with, the Accomplishment Instructions of Boeing Alert Requirements Bulletin 747–21A2577 RB, dated February 18, 2020.

Note 1 to paragraph (g): Guidance for accomplishing the actions required by this AD can be found in Boeing Alert Service Bulletin 747–21A2577, dated February 18, 2020, which is referred to in Boeing Alert Requirements Bulletin 747–21A2577 RB, dated February 18, 2020.

(h) Exceptions to Service Information Specifications

- (1) Where Boeing Alert Requirements Bulletin 747–21A2577 RB, dated February 18, 2020, uses the phrase "the original issue date of Requirements Bulletin 747–21A2577 RB," this AD requires using "the effective date of this AD."
- (2) Where Boeing Alert Requirements Bulletin 747–21A2577 RB, dated February 18, 2020, specifies contacting Boeing for repair instructions: This AD requires doing the repair before further flight using a method approved in accordance with the procedures specified in paragraph (j) of this AD

(i) Parts Installation Prohibition

As of the effective date of this AD, no person may install an original fiberglass fabric material TADD assembly, having a part number listed in Appendix A of Boeing Alert Requirements Bulletin 747–21A2577 RB, dated February 18, 2020, on any airplane.

(j) Alternative Methods of Compliance (AMOCs)

- (1) The Manager, Seattle ACO 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 paragraph (k)(1) of this AD. Information may be emailed to: 9-ANM-Seattle-ACO-AMOC-Requests@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) An AMOC that provides an acceptable level of safety may be used for any repair, modification, or alteration required by this AD if it is approved by The Boeing Company Organization Designation Authorization (ODA) that has been authorized by the Manager, Seattle ACO Branch, FAA, to make those findings. To be approved, the repair method, modification deviation, or alteration deviation must meet the certification basis of the airplane, and the approval must specifically refer to this AD.

(k) Related Information

- (1) For more information about this AD, contact Nicole S. Tsang, Aerospace Engineer, Cabin Safety and Environmental Systems Section, FAA, Seattle ACO Branch, 2200 South 216th St., Des Moines, WA 98198; phone and fax: 206–231–3959; email: nicole.s.tsang@faa.gov.
- (2) Service information identified in this AD that is not incorporated by reference is available at the addresses specified in paragraphs (1)(3) and (4) of this AD.

(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) Boeing Alert Requirements Bulletin 747–21A2577 RB, dated February 18, 2020.
 - (ii) [Reserved]
- (3) For service information identified in this AD, contact Boeing Commercial Airplanes, Attention: Contractual & Data Services (C&DS), 2600 Westminster Blvd., MC 110–SK57, Seal Beach, CA 90740–5600; telephone 562–797–1717; internet https://www.myboeingfleet.com.
- (4) You may view this service information 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.
- (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 March 22, 2021.

Lance T. Gant,

Director, Compliance & Airworthiness Division, Aircraft Certification Service. [FR Doc. 2021–07034 Filed 4–6–21; 8:45 am]

BILLING CODE 4910-13-P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2020-0915; Project Identifier AD-2020-00661-Q; Amendment 39-21501; AD 2021-08-07]

RIN 2120-AA64

ACTION: Final rule.

Airworthiness Directives; Rockwell Collins, Inc., Global Positioning Systems

AGENCY: Federal Aviation Administration (FAA), DOT.

SUMMARY: The FAA is adopting a new airworthiness directive (AD) for certain Rockwell Collins, Inc. (Rockwell Collins), GPS–4000S Global Positioning Systems (GPS) installed on airplanes. This AD was prompted by an unannunciated GPS position error, which could cause a misleading localizer performance with vertical guidance (LPV) glidepath, resulting in controlled flight into terrain (CFIT). This AD requires upgrading the GPS–4000S. The FAA is issuing this AD to address the unsafe condition on these products.

DATES: This AD is effective May 12, 2021.

ADDRESSES: For service information identified in this final rule, contact Rockwell Collins, Inc., 400 Collins Road NE, Cedar Rapids, IA 52498; phone: (319) 295–5000; email: customersupport@rockwellcollins.com; website: www.rockwellcollins.com. You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 901 Locust, Kansas City, MO 64106. For information on the availability of this material at the FAA, call (816) 329–4148.

Examining the AD Docket

You may examine the AD docket at https://www.regulations.gov by searching for and locating Docket No. FAA–2020–0915; 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: Paul Rau, Aviation Safety Engineer, Wichita ACO Branch, FAA, 1801 Airport Road, Wichita, KS 67209; phone: (316) 946–4149; fax: (316) 946–4107; email:

paul.rau@faa.gov or Wichita-COS@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 Rockwell Collins GPS-4000S GPS installed on airplanes. The NPRM published in the Federal Register on October 29, 2020 (85 FR 68501). The NPRM was prompted by the FAA being notified of a software error in GPS P/N 822-2189-100 that can result in an unannunciated inaccurate GPS position in the region within approximately 1,000 miles (+/-20 degrees) of 180 degrees west longitude. The software improperly applies the wide area augmentation system ionospheric delay corrections to the GPS signal from satellites located across the 180th meridian. Due to this anomaly, the position accuracy may be diminished such that the GPS-4000S P/N 822-2189-100 will not support LPV approaches in the affected region. In the NPRM, the FAA proposed to require removing P/N 822-2189-100 GPS-4000S GPS from the airplane and installing P/N 811-2189-101 GPS-4000S GPS. The FAA is issuing this AD to prevent a misleading glidepath on an affected LPV approach, resulting in

Discussion of Final Airworthiness Directive

Comments

The FAA received comments from five commenters. The commenters were the Air Line Pilots Association, International (ALPA), Bombardier Aviation (Bombardier), Delta Air Lines, Inc. (Delta), Airbus Canada, and Transport Canada Civil Aviation (Transport Canada). The following presents the comments received on the NPRM and the FAA's response to each comment.

Supportive Comment

ALPA supported the AD without change.

Request Regarding the Unsafe Condition

Bombardier requested the FAA clarify paragraph (e) because it does not describe the unsafe condition accurately. Bombardier stated that the reference to a GPS vertical error is misleading and recommended rewording it to state that a GPS software anomaly causes an undetectable and inaccurate horizontal position from the Global Navigation Satellite System (GNSS).

The FAA disagrees. The software error in the GPS-4000 produces both horizontal and vertical position inaccuracies in the affected region. The FAA determined the vertical error results in an unsafe condition as it could cause the airplane to follow a glidepath below the obstacle clearance surface of the LPV approach.

Request Regarding Replacement of the GPS-4000S

Delta requested the FAA change the proposed requirement in paragraph (g)(1) to replace GPS–4000S P/N 822– 2189-100 so that the AD does not prevent installation of a GPS P/N that is unaffected by the unsafe condition. Delta stated GPS-4000S P/N 822-2189-011 is two-way interchangeable with P/N 822-2189-100 as a set and is not affected by the unsafe condition. Delta also stated that Rockwell Collins could develop new GPS P/Ns that are not subject to the unsafe condition, which operators could not install without obtaining approval for an alternative method of compliance (AMOC), based on the proposed paragraph (g)(1). Delta requested the FAA change paragraph (g)(1) to require replacing GPS-4000S GPS P/N 822-2189-100 with "an improved part number."

The FAA agrees. It is not necessary for the AD to require installing P/N 822–2189–101 because requiring the removal of P/N 822–2189–100 will resolve the unsafe condition. Operators may replace GPS P/N 822–2189–100 with any other system approved for installation in their aircraft, although the FAA expects installation of P/N 822–2189–101 will be the most common method.

The FAA has revised the AD to only require removing GPS–4000S GPS P/N 822–2189–100 from service without requiring replacement with a specific P/N GPS.

Requests Regarding Installation Prohibition

Airbus Canada and Transport Canada commented on the FAA's proposal to prohibit the installation of the GPS–4000S GPS P/N 822–2189–100 as of the effective date of the AD instead of once P/N 822–2189–101 has been installed. The commenters stated that this may create dispatch issues for operators depending on the number of available parts.

The FAA agrees and has changed the prohibition of installation to take effect 24 months after the effective date of the AD. Operators may install a GPS-4000S GPS P/N 822-2189-100 to address maintenance/repair issues prior to

complying with the AD. Once an operator has removed GPS-4000S GPS P/N 822-2189-100 to comply with the AD, the operator must maintain that configuration and may not change it to install a GPS-4000S GPS P/N 822-2189-100 without an approved AMOC.

Request Regarding Applicability

Delta requested the FAA change the applicability to specify only those aircraft types with the affected software installed. Delta stated that as proposed, the AD would require all operators to review records to verify whether the affected GPS P/N is installed on all of their airplane fleets, regardless of whether it is type certificated or supplemental type certificated.

The FAA disagrees. The FAA issues an AD against an appliance when, as in this case, the unsafe condition exists in the appliance. If known, the FAA will list the aircraft models that the appliance might be installed on. However, this would not be an allinclusive list and would still require all operators to check their airplanes for the affected appliance, regardless of whether the model of their airplane is listed.

The FAA did not change this AD based on this comment.

Requests Regarding Reinstatement of LPV Approaches

Airbus Canada stated that the NPRM does not mention that Rockwell Collins removed the LPV approaches from the impacted airports. Airbus Canada requested that the AD provide credit for this. Transport Canada asked whether Rockwell Collins and the FAA will return the affected Alaska LPV procedures to the Navigation database for customers who have updated their entire fleet with the P/N 822–2189–101 version of the GPS–4000S.

The FAA disagrees with this comment. The FAA infers that the commenters are referencing Rockwell Collins' removal of the affected LPV approaches from the Rockwell Collins Navigation database beginning in February 2020. This LPV approach removal was initiated by Rockwell Collins as a temporary mitigation, but it affects all versions of the GPS-4000S that use the database, including those (such as the -101 version) that do not have the unsafe condition. Accordingly, the FAA did not base its determination and the corrective actions of this AD on the removal of affected LPV approaches.

The FAA did not change this AD based on this comment.

Conclusion

The FAA reviewed the relevant data, considered any 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 the changes described previously, this AD is adopted as proposed in the NPRM. None of the changes will increase the economic burden on any operator.

Related Service Information

The FAA reviewed Rockwell Collins Service Information Letter GPS-4X00()– 19–3, Revision No. 2, dated March 25, 2020. The service letter describes the unsafe condition and provides operating limitations for approaches to airports in the affected region until the software is upgraded.

The FAA also reviewed Rockwell Collins Service Bulletin GPS-4X00()-34-510, Revision No. 1, dated March 6, 2020. The service bulletin specifies

procedures for upgrading the GPS–4000S software, which removes P/N 822–2189–100 and installs P/N 822–2189–101.

Costs of Compliance

The FAA estimates that this AD affects 3,500 airplanes of U.S. registry. The FAA estimates that 2,000 airplanes have two GPS-4000S units installed and 1,500 airplanes have one GPS-4000S unit installed.

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 GPS–4000S (airplanes with 2 units installed).	7 work-hours × \$85 per hour = \$595	\$4,540.00	\$5,135	\$10,270,000
Replace GPS-4000S (airplanes with single unit installed).	3.50 work-hours × \$85 per hour = \$297.50	2,270	2,567.50	3,851,250

The FAA has included all known costs in this cost estimate. According to the manufacturer, however, some 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 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:

2021-08-07 Rockwell Collins, Inc.:

Amendment 39–21501; Docket No. FAA–2020–0915; Project Identifier AD–2020–00661–Q.

(a) Effective Date

This airworthiness directive (AD) is effective May 12, 2021.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Rockwell Collins, Inc. GPS–4000S Global Positioning System (GPS) part number (P/N) 822–2189–100 installed on airplanes, certificated in any category.

(d) Subject

Joint Aircraft System Component (JASC)/ Air Transport Association (ATA) of America Code 3400, NAVIGATION SYSTEM.

(e) Unsafe Condition

This AD was prompted by an unannunciated GPS vertical error that could result in a hazardously misleading localizer performance vertical (LPV) glidepath. The FAA is issuing this AD to prevent a misleading GPS position on an LPV approach. The unsafe condition, if not addressed, could result in a misleading GPS position on an LPV approach resulting in controlled flight into terrain.

(f) Compliance

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

(g) Actions

- (1) Within 24 months replace each GPS–4000S GPS P/N 822–2189–100 with a GPS that does not have P/N 822–2189–100.
- (2) As of 24 months after the effective date of this AD, do not install GPS–4000S GPS P/ N 822–2189–100 on any airplane.

(h) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Wichita ACO 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.

(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.

(i) Related Information

(1) For more information about this AD, contact Paul Rau, Aviation Safety Engineer, Wichita ACO Branch, FAA, 1801 Airport Road, Wichita, KS 67209; phone: (316) 946–4149; fax: (316) 946–4107; email: paul.rau@faa.gov or Wichita-COS@faa.gov.

(2) Rockwell Collins Service Information Letter GPS-4X00()-19-3, Revision No. 2, dated March 25, 2020; and Rockwell Collins Service Bulletin GPS-4X00()-34-510, Revision No. 1, dated March 6, 2020, contain information related to this AD. For this service information, you may contact Rockwell Collins, Inc., at 400 Collins Road NE, Cedar Rapids, IA 52498; phone: (319) 295-5000; email: customersupport@rockwellcollins.com; website: www.rockwellcollins.com.

Issued on March 30, 2021.

Lance T. Gant,

Director, Compliance & Airworthiness Division, Aircraft Certification Service.

[FR Doc. 2021–07015 Filed 4–6–21; 8:45 am]

BILLING CODE 4910-13-P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2020-1137; Project Identifier MCAI-2020-00816-T; Amendment 39-21487; AD 2021-07-10]

RIN 2120-AA64

Airworthiness Directives; MHI RJ Aviation ULC (Type Certificate Previously Held by Bombardier, Inc.) Airplanes

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

ACTION: Final rule.

SUMMARY: The FAA is adopting a new airworthiness directive (AD) for certain MHI RJ Aviation ULC Model CL-600-2C10 (Regional Jet Series 700, 701 & 702), CL-600-2C11 (Regional Jet Series 550), and CL-600-2D24 (Regional Jet Series 900) airplanes. This AD was prompted by a report that some piccolo ducts for the wing anti-ice system have bleed holes that do not conform to requirements. This AD requires, depending on airplane configuration, inspection for the presence of affected wing anti-ice system piccolo ducts and corrective actions, or replacement of affected piccolo ducts with new piccolo ducts. The FAA is issuing this AD to

address the unsafe condition on these products.

DATES: This AD is effective May 12, 2021.

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

ADDRESSES: For service information identified in this final rule, contact MHI RJ Aviation ULC, 12655 Henri-Fabre Blvd., Mirabel, Québec J7N 1E1 Canada; Widebody Customer Response Center North America toll-free telephone +1-844-272-2720 or direct-dial telephone +1-514-855-8500; fax +1-514-855-8501; email thd.crj@mhirj.com; internet https://mhirj.com. You may view this service information 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 on the internet at https://www.regulations.gov by searching for and locating Docket No. FAA-2020-1137.

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–2020–1137; 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: Siddeeq Bacchus, Aerospace Engineer, Mechanical Systems and Administrative Services Section, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516–228–7362; email 9-avs-nyaco-cos@faa.gov.

SUPPLEMENTARY INFORMATION:

Background

Transport Canada Civil Aviation (TCCA), which is the aviation authority for Canada, has issued TCCA AD CF–2020–23, dated June 24, 2020 (TCCA AD CF–2020–23) (also referred to as the Mandatory Continuing Airworthiness Information, or the MCAI), to correct an unsafe condition for certain MHI RJ Aviation ULC Model CL–600–2C10 (Regional Jet Series 700, 701 & 702), CL–600–2C11 (Regional Jet Series 550), and CL–600–2D24 (Regional Jet Series 900)

airplanes. You may examine the MCAI in the AD docket on the internet at https://www.regulations.gov by searching for and locating Docket No. FAA–2020–1137.

The FAA issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 by adding an AD that would apply to certain MHI RJ Aviation ULC Model CL-600-2C10 (Regional Jet Series 700, 701 & 702), CL-600-2C11 (Regional Jet Series 550), and CL-600-2D24 (Regional Jet Series 900) airplanes. The NPRM published in the Federal Register on December 21, 2020 (85 FR 82975). The NPRM was prompted by a report that some piccolo ducts for the wing anti-ice system have bleed holes that do not conform to requirements (such as being undersized, un-burred, or in the wrong location). The NPRM proposed to require, depending on airplane configuration, inspection for the presence of affected wing anti-ice system piccolo ducts and corrective actions, or replacement of affected piccolo ducts with new piccolo ducts. The FAA is issuing this AD to address non-conforming piccolo duct bleed holes, which could lead to degradation of the wing anti-ice protection of the leading edge of certain slats, and possibly result in airplane handling issues during critical phases of flight. See the MCAI for additional background information.

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.

Clarification of Reporting Requirement

Bombardier Service Bulletin 670BA—30—025, dated December 17, 2019, includes a requirement to report the preand post-modification part and serial number of each replaced piccolo duct to Bombardier. The FAA has added paragraph (h) of this AD to clarify the appropriate compliance time for this reporting and redesignated subsequent paragraphs accordingly. The FAA has also revised the Cost of Compliance portion of this AD to include the estimated costs for this reporting requirement.

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: