



[4910-13-P]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2016-7418; Directorate Identifier 2015-NM-163-AD]

RIN 2120-AA64

Airworthiness Directives; Bombardier, Inc. Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: We propose to adopt a new airworthiness directive (AD) for certain Bombardier, Inc. Model CL-600-2A12 (CL-601 Variant), and CL-600-2B16 (CL-601-3A, CL-601-3R, and CL-604 Variants) airplanes. This proposed AD was prompted by a report that a potential chafing condition exists between the negative-G fuel feed drain line of the auxiliary power unit (APU) and its surrounding structure and components. This proposed AD would require, for certain airplanes, a detailed inspection for chafing conditions of the negative-G fuel feed drain line of the APU, and corrective actions if necessary. For certain other airplanes, this proposed AD would require replacement of the APU negative-G fuel feed tube assembly and the drain line. We are proposing this AD to prevent a chafing condition in the negative-G fuel feed drain line, which can result in fuel leaking from the drain line. Leakage of the negative-G fuel feed drain line is a dormant failure. This condition, in combination with a nearby hot surface or other potential ignition source, could result in an uncontrolled fire in the aft equipment bay.

DATES: We must receive comments on this proposed AD by [INSERT DATE 45 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

ADDRESSES: You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following methods:

- Federal eRulemaking Portal: Go to <http://www.regulations.gov>. Follow the instructions for submitting comments.
- Fax: 202-493-2251.
- Mail: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE., Washington, DC 20590.
- Hand Delivery: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE., Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

For service information identified in this NPRM, contact Bombardier, Inc., 400 Côte-Vertu Road West, Dorval, Québec H4S 1Y9, Canada; telephone 514-855-5000; fax 514-855-7401; email thd.crj@aero.bombardier.com; Internet <http://www.bombardier.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.

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-2016-7418; 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 proposed AD, 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.

FOR FURTHER INFORMATION CONTACT: Norman Perenson, Aerospace Engineer, Propulsion and Services Branch, ANE-173, FAA, New York Aircraft Certification Office (ACO), 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone: 516-228-7337; fax: 516-794-5531.

SUPPLEMENTARY INFORMATION:

Comments Invited

We invite you to send any written relevant data, views, or arguments about this proposed AD. Send your comments to an address listed under the ADDRESSES section. Include “Docket No. FAA-2016-7418; Directorate Identifier 2015-NM-163-AD” at the beginning of your comments. We specifically invite comments on the overall regulatory, economic, environmental, and energy aspects of this proposed AD. We will consider all comments received by the closing date and may amend this proposed AD based on those comments.

We will post all comments we receive, without change, to <http://www.regulations.gov>, including any personal information you provide. We will also post a report summarizing each substantive verbal contact we receive about this proposed AD.

Discussion

Transport Canada Civil Aviation (TCCA), which is the aviation authority for Canada, has issued Canadian Airworthiness Directive CF-2015-26, dated September 14, 2015 (referred to after this as the Mandatory Continuing Airworthiness Information, or "the MCAI"), to correct an unsafe condition for certain Bombardier, Inc. Model CL-600-2A12 (CL-601 Variant) and CL-600-2B16 (CL-601-3A, CL-601-3R, and CL-604 Variants) airplanes. The MCAI states:

It was reported that a potential chaffing condition exist between the Auxiliary Power Unit (APU) negative-G fuel feed drain line and its surrounding structure and components. Leakage of the negative-G fuel feed drain line is a dormant failure, however, in combination with a nearby hot surface or other potential ignition source, could result in an uncontrolled fire in the aft equipment bay.

This [Canadian] AD mandates [for certain airplanes] the detailed visual inspection [for chafing conditions, e.g., fouling between the drain line and other components and insufficient clearance] and, if required, rectification [corrective actions], to ensure required clearance between the APU negative-G fuel feed drain line and its surrounding structure and components [and, for certain other airplanes, this [Canadian] AD mandates replacement of the APU negative-G fuel feed tube assembly and the drain line].

Corrective actions include replacing the APU negative-G fuel feed drain line. 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-2016-7418.

Related Service Information under 1 CFR part 51

Bombardier, Inc. has issued the following service information:

- Service Bulletin 601-0640, dated May 19, 2015; and Service Bulletin 604-28-021 dated May 19, 2015. The service information describes procedures for a detailed inspection for chafing conditions of the negative-G fuel feed drain line of the APU, and corrective actions.

- Service Bulletin 605-28-009, dated May 19, 2015. The service information describes procedures for a detailed inspection for chafing conditions of the negative-G fuel feed drain line of the APU, replacement of the APU negative-G fuel feed tube assembly and the drain line, and corrective actions.

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.

FAA’s Determination and Requirements of this Proposed AD

This product has been approved by the aviation authority of another country, and is approved for operation in the United States. Pursuant to our bilateral agreement with the State of Design Authority, we have been notified of the unsafe condition described in the MCAI and service information referenced above. We are proposing this AD because

we evaluated all pertinent information and determined an unsafe condition exists and is likely to exist or develop on other products of the same type design.

Costs of Compliance

We estimate that this proposed AD affects 504 airplanes of U.S. registry.

We also estimate that it will take about 22 work-hours per product to comply with the basic requirements of this proposed AD. The average labor rate is \$85 per work-hour. Required parts would cost about \$6,334 per product. Based on these figures, we estimate the cost of this proposed AD on U.S. operators to be \$4,134,816 or \$8,204 per product.

According to the manufacturer, some of the costs of this proposed AD may be covered under warranty, thereby reducing the cost impact on affected individuals. We do not control warranty coverage for affected individuals. As a result, we have included all costs in our cost estimate.

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 proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would 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 proposed regulation:

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.

The Proposed Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 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):

Bombardier, Inc.: Docket No. FAA-2016-7418; Directorate Identifier

2015-NM-163-AD.

(a) Comments Due Date

We must receive comments by [INSERT DATE 45 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

(b) Affected ADs

None.

(c) Applicability

This AD applies to Bombardier, Inc. airplanes, certificated in any category, identified in paragraphs (c)(1), (c)(2), and (c)(3) of this AD.

(1) Model CL-600-2A12 (CL-601 Variant) airplanes, having serial numbers (S/Ns) 3001 through 3066 inclusive.

(2) Model CL-600-2B16 (CL-601-3A and CL-601-3R Variants) airplanes, having S/Ns 5001 through 5194 inclusive.

(3) Model CL-600-2B16 (CL-604 Variant) airplanes, having S/Ns 5301 through 5665 inclusive, and 5701 through 5970 inclusive.

(d) Subject

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

(e) Reason

This AD was prompted by a report that a potential chafing condition exists between the negative-G fuel feed drain line of the auxiliary power unit (APU) and its surrounding structure and components. We are issuing this AD to prevent a chafing condition in the negative-G fuel feed drain line, which can result in fuel leaking from the drain line. This condition, in combination with a nearby hot surface or other potential ignition source, could result in an uncontrolled fire in the aft equipment bay.

(f) Compliance

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

(g) Inspection and Corrective Action for Certain Airplanes

Within 24 months after the effective date of this AD, comply with the applicable actions specified in paragraphs (g)(1) through (g)(3) of this AD, except as required by paragraph (i) of this AD. Do all applicable corrective actions before further flight.

(1) For Model CL-600-2A12 (CL-601 Variant) airplanes, having S/Ns 3001 through 3066 inclusive; and Model CL-600-2B16 (CL-601-3A and CL-601-3R Variants) airplanes, having S/Ns 5001 through 5194 inclusive: Do a detailed inspection for chafing conditions of the negative-G fuel feed drain line of the APU, and do all applicable corrective actions, in accordance with the Accomplishment Instructions of Bombardier Service Bulletin 601-0640, dated May 19, 2015.

(2) For Model CL-600–2B16 (CL-604 Variant) airplanes, having S/Ns 5301 through 5665 inclusive: Do a detailed inspection for chafing conditions of the negative-G fuel feed drain line of the APU, and do all applicable corrective actions, in accordance with the Accomplishment Instructions of Bombardier Service Bulletin 604-28-021, dated May 19, 2015.

(3) For Model CL-600–2B16 (CL-604 Variant) airplanes, having S/Ns 5701 through 5913 inclusive, 5917, 5918, and 5923 through 5970 inclusive: Do a detailed inspection for chafing conditions of the negative-G fuel feed drain line of the APU, and do all applicable corrective actions, in accordance with the Accomplishment Instructions in Part A and, if applicable, Part B of Bombardier Service Bulletin 605-28-009, dated May 19, 2015.

(h) Modification for Certain Other Airplanes

For Model CL-600–2B16 (604 Variant) airplanes having S/Ns 5914 through 5916 inclusive and 5919 through 5922 inclusive: Within 24 months after the effective date of this AD, replace the APU negative–G fuel feed tube assembly and the drain line, in accordance with Part C of the Accomplishment Instructions of Bombardier Service Bulletin 605-28-009, dated May 19, 2015.

Note 1 to paragraph (h) of this AD: An inspection is not required.

(i) Service Information Exception

Where any service information identified in paragraphs (g)(1), (g)(2), and (g)(3) of this AD specifies to contact the manufacturer for corrective action, before further flight, repair using a method approved by the Manager, New York Aircraft Certification

Office (ACO), ANE-170, FAA; or Transport Canada Civil Aviation (TCCA); or Bombardier, Inc.'s TCCA Design Approval Organization (DAO).

(j) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, New York ACO, ANE-170, 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: Norman Perenson, Aerospace Engineer, Propulsion and Services Branch, ANE-173, FAA, New York ACO, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516-228-7337; fax 516-794-5531. 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, New York ACO, ANE-170, FAA; or TCCA; or Bombardier, Inc.'s TCCA DAO. If approved by the DAO, the approval must include the DAO-authorized signature.

(k) Related Information

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) Canadian Airworthiness Directive CF-2015-26, dated September 14, 2015, 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-2016-7418.

(2) For service information identified in this AD, contact Bombardier, Inc., 400 Côte-Vertu Road West, Dorval, Québec H4S 1Y9, Canada; telephone 514-855-5000; fax 514-855-7401; email thd.crj@aero.bombardier.com; Internet <http://www.bombardier.com>. 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.

Issued in Renton, Washington, on June 16, 2016.

Dionne Palermo, Acting Manager,
Transport Airplane Directorate,
Aircraft Certification Service.

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