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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2008-0911; Directorate Identifier 2008-NM-115-AD; Amendment 39-15739; AD 2008-23-18]

RIN 2120-AA64

Airworthiness Directives; Bombardier Model CL-600-2C10 (Regional Jet Series 700, 701 & 702), CL-600-2D15 (Regional Jet Series 705), and CL-600-2D24 (Regional Jet Series 900) Airplanes

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

ACTION: Final rule.

SUMMARY: We are adopting a new airworthiness directive (AD) for the products listed above. This AD results from mandatory continuing airworthiness information (MCAI) originated by an aviation authority of another country to identify and correct an unsafe condition on an aviation product. The MCAI describes the unsafe condition as:

There have been several incidents of shorting and sparks due to de-icing fluid ingress into the cockpit of CL-600-2C10 and CL-600-2D24 aircraft. De-icing fluid can enter between the windshields and side windows, leading to possible damage to the electrical components and wires as it comes into contact with cockpit floodlight electrical connections.

De-icing fluid in contact with cockpit floodlight electrical connections can result in possible arcing and fire. We are issuing this AD to require actions to correct the unsafe condition on these products.

DATES: This AD becomes effective December 30, 2008.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of December 30, 2008.

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: Wing Chan, Aerospace Engineer, Systems and Flight Test Branch, ANE-172, FAA, New York Aircraft Certification Office, 1600 Stewart Avenue, Suite 410, Westbury, New York 11590; telephone (516) 228-7311; fax (516) 794-5531.

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 August 26, 2008 (73 FR 50254). That NPRM proposed to correct an unsafe condition for the specified products. The MCAI states:

There have been several incidents of shorting and sparks due to de-icing fluid ingress into the cockpit of CL-600-2C10 and CL-600-2D24 aircraft. De-icing fluid can enter between the windshields and side windows, leading to possible damage to the electrical components and wires as it comes into contact with cockpit floodlight electrical connections.

De-icing fluid in contact with cockpit floodlight electrical connections can result in possible arcing and fire. The actions to address the unsafe condition include performing a leak test, applying sealant between the windshields and side windows, and doing related investigative and corrective actions. The related investigative action is performing a leak test after applying sealant. The related corrective action is contacting Bombardier for repair instructions and doing the repair. 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 received no comments on the NPRM or on the determination of the cost to the public.

Conclusion

We reviewed the available data and determined that air safety and the public interest require adopting the AD as proposed.

Differences Between This AD and the MCAI or Service Information

We have reviewed the MCAI and related service information and, in general, agree with their substance. But we might have found it necessary to use different words from those in the MCAI to ensure the AD is clear for U.S. operators and is enforceable. In making these changes, we do not intend to differ substantively from the information provided in the MCAI and related service information.

We might also have required different actions in this AD from those in the MCAI in order to follow our FAA policies. Any such differences are highlighted in a NOTE within the AD.

Costs of Compliance

We estimate that this AD will affect about 254 products of U.S. registry. We also estimate that it will take about 4 work-hours per product to comply with the basic requirements of this AD. The average labor rate is \$80 per work-hour. Based on these figures, we estimate the cost of this AD to the U.S. operators to be \$81,280, or \$320 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 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); 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.

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, 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:



2008-23-18 Bombardier, Inc. (Formerly Canadair): Amendment 39-15739. Docket No. FAA-2008-0911; Directorate Identifier 2008-NM-115-AD.

Effective Date

- (a) This airworthiness directive (AD) becomes effective December 30, 2008.

Affected ADs

- (b) None.

Applicability

(c) This AD applies to Bombardier Model CL-600-2C10 (Regional Jet Series 700, 701 & 702) airplanes, serial numbers 10003 through 10216 inclusive; and Model CL-600-2D15 (Regional Jet Series 705) and CL-600-2D24 (Regional Jet Series 900) airplanes, serial numbers 15001 through 15040 inclusive; certificated in any category.

Subject

- (d) Air Transport Association (ATA) of America Code 56: Windows.

Reason

- (e) The mandatory continuing airworthiness information (MCAI) states:

There have been several incidents of shorting and sparks due to de-icing fluid ingress into the cockpit of CL-600-2C10 and CL-600-2D24 aircraft. De-icing fluid can enter between the windshields and side windows, leading to possible damage to the electrical components and wires as it comes into contact with cockpit floodlight electrical connections.

De-icing fluid in contact with cockpit floodlight electrical connections can result in possible arcing and fire. The actions to address the unsafe condition include performing a leak test, applying sealant between the windshields and side windows, and doing related investigative and corrective actions. The related investigative action is performing a leak test after applying sealant. The related corrective action is contacting Bombardier for repair instructions and doing the repair.

Actions and Compliance

- (f) Unless already done, do the following actions.

(1) Within 450 flight hours after the effective date of this AD: Perform a leak test in accordance with Part A of the Accomplishment Instructions of Bombardier Alert Service Bulletin A670BA-56-002, Revision A, dated February 26, 2008.

(2) If leakage is detected in the leak test performed in accordance with paragraph (f)(1) of this AD: Prior to further flight, apply sealant between the windshields and side windows and do all

applicable related investigative and corrective actions in accordance with Part B of the Accomplishment Instructions of Bombardier Alert Service Bulletin A670BA-56-002, Revision A, dated February 26, 2008. Do all applicable related investigative and corrective actions before further flight.

(3) If there is no leakage detected in the leak test performed in accordance with paragraph (f)(1) of this AD: Within 6 months or 2,000 flight hours after the effective date of this AD, whichever comes first, apply sealant between the windshields and side windows and do all applicable related investigative and corrective actions before further flight in accordance with Part B of the Accomplishment Instructions of Bombardier Alert Service Bulletin A670BA-56-002, Revision A, dated February 26, 2008. Do all applicable related investigative and corrective actions before further flight.

(4) A leak test and application of sealant are also acceptable for compliance with the requirements of paragraphs (f)(1), (f)(2), and (f)(3) of this AD if done before the effective date of this AD in accordance with Bombardier Alert Service Bulletin A670BA-56-002, dated January 7, 2008.

FAA AD Differences

Note 1: This AD differs from the MCAI and/or service information as follows: No differences.

Other FAA AD Provisions

(g) The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, New York Aircraft Certification Office, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. Send information to ATTN: Wing Chan, Aerospace Engineer, Systems and Flight Test Branch, ANE-172, FAA, New York Aircraft Certification Office, 1600 Stewart Avenue, Suite 410, Westbury, New York 11590; telephone (516) 228-7311; fax (516) 794-5531. Before using any approved AMOC on any airplane to which the AMOC applies, notify your appropriate principal inspector (PI) in the FAA Flight Standards District Office (FSDO), or lacking a PI, your local FSDO.

(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.

(3) Reporting Requirements: For any reporting requirement in this AD, under the provisions of the Paperwork Reduction Act, the Office of Management and Budget (OMB) has approved the information collection requirements and has assigned OMB Control Number 2120-0056.

Related Information

(h) Refer to MCAI Canadian Airworthiness Directive CF-2008-19, dated May 8, 2008; and Bombardier Alert Service Bulletin A670BA-56-002, Revision A, dated February 26, 2008; for related information.

Material Incorporated by Reference

(i) You must use Bombardier Alert Service Bulletin A670BA-56-002, Revision A, dated February 26, 2008, to do the actions required by this AD, unless the AD specifies otherwise.

(1) The Director of the Federal Register approved the incorporation by reference of this service information under 5 U.S.C. 552(a) and 1 CFR part 51.

(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; e-mail thd.crj@aero.bombardier.com; Internet <http://www.bombardier.com>.

(3) You may review copies at the FAA, Transport Airplane Directorate, 1601 Lind Avenue, SW., Renton, Washington; or 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/code_of_federal_regulations/ibr_locations.html.

Issued in Renton, Washington, on November 6, 2008.

Stephen P. Boyd,
Assistant Manager, Transport Airplane Directorate,
Aircraft Certification Service.