

DEPARTMENT OF TRANSPORTATION**Federal Aviation Administration****14 CFR Part 39**

[Docket No. FAA-2009-1029; Directorate Identifier 2009-NM-103-AD]

RIN 2120-AA64

Airworthiness Directives; Bombardier Model CL-600-2B19 (Regional Jet Series 100 & 440) Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: We propose to adopt a new airworthiness directive (AD) for the products listed above that would supersede an existing AD. This proposed 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: Following in-flight test deployments, several Air-Driven generators (ADGs) failed to come on-line. Investigation revealed that, as a result of a wiring anomaly that had not been detected during ADG manufacture, a short circuit was possible between certain internal wires and their metallic over-braided shields, which could result in the ADG not providing power when deployed. The unsafe condition is that failure of the ADG could lead to loss of several functions essential for safe flight. The proposed AD would require actions that are intended to address the unsafe condition described in the MCAI.

DATES: We must receive comments on this proposed AD by December 21, 2009.

ADDRESSES: You may send comments 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 W12-40, 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 proposed 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>. You may review copies of the referenced service information at the FAA, Transport Airplane Directorate, 1601 Lind Avenue, SW., Renton, Washington. For information on the availability of this material at the FAA, call 425-227-1221 or 425-227-1152.

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 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:

Fabio Buttitta, Aerospace Engineer, Airframe and Mechanical Systems Branch, ANE-171, FAA, New York Aircraft Certification Office, 1600 Stewart Avenue, Suite 410, Westbury, New York 11590; telephone (516) 228-7303; 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-2009-1029; Directorate Identifier 2009-NM-103-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 have lengthened the 30-day comment period for proposed ADs that address MCAI originated by aviation authorities of other countries to provide adequate time for interested parties to submit comments. The comment period for these proposed ADs is now typically 45 days, which is consistent with the comment period for domestic transport ADs.

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

On March 6, 2009, we issued AD 2009-06-17, Amendment 39-15854 (74 FR 13086, March 26, 2009). That AD required actions intended to address an unsafe condition on the products listed above.

Since we issued AD 2009-06-17, we have been advised that additional air-driven generators may have been installed between the effective date of Canadian Airworthiness Directive CF-2008-09, and the effective date of the equivalent FAA AD 2009-06-17. Therefore, we have determined that the actions specified in paragraph (f)(1) of AD 2009-06-17 also must be done on airplanes having serial numbers 8084 through 8102.

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.

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 proposed different actions in this AD from those in the MCAI in order to follow FAA policies. Any such differences are highlighted in a NOTE within the proposed AD.

Costs of Compliance

Based on the service information, we estimate that this proposed AD would affect about 686 products of U.S. registry.

The actions that are required by AD 2009-06-17 and retained in this proposed AD take about 5 work-hours per product, at an average labor rate of \$80 per work hour. Required parts cost about \$0 per product. Where the service information lists required parts costs

that are covered under warranty, we have assumed that there will be no charge for these costs. As we do not control warranty coverage for affected parties, some parties may incur costs higher than estimated here. Based on these figures, we estimate the cost of the proposed AD on U.S. operators to be \$274,400, or \$400 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 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); 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 proposed AD and placed it in the AD docket.

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 removing Amendment 39–15854 (74 FR 13086, March 26, 2009) and adding the following new AD:

Bombardier, Inc. (Formerly Canadair):

Docket No. FAA–2009–1029; Directorate Identifier 2009–NM–103–AD.

Comments Due Date

(a) We must receive comments by December 21, 2009.

Affected ADs

(b) The proposed AD supersedes AD 2009–06–17, Amendment 39–15854.

Applicability

(c) This AD applies to Bombardier Model CL–600–2B19 (Regional Jet Series 100 & 440) airplanes; certificated in any category; having serial numbers (SNs) 7305 through 7990, and 8000 and subsequent.

Subject

(d) Air Transport Association (ATA) of America Code 24: Electrical power.

Reason

(e) The mandatory continuing airworthiness information (MCAI) states: Following in-flight test deployments, several Air-Driven generators (ADGs) failed to come on-line. Investigation revealed that,

as a result of a wiring anomaly that had not been detected during ADG manufacture, a short circuit was possible between certain internal wires and their metallic over-braided shields, which could result in the ADG not providing power when deployed. This directive mandates checking of the ADG and modification of the ADG internal wiring, if required. It also prohibits future installation of unmodified ADGs.

The unsafe condition is that failure of the ADG could lead to loss of several functions essential for safe flight.

Restatement of Requirements of AD 2009–06–17

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

(1) For airplanes having serial number (SN) 7305 through 7990 and 8000 through 8083: Within 12 months after April 30, 2009 (the effective date of AD 2009–06–17), inspect the SN of the installed ADG. A review of airplane maintenance records is acceptable in lieu of this inspection if the serial number of the ADG can be conclusively determined from that review.

(i) If the serial number is not listed in paragraph 1.A of Bombardier Service Bulletin 601R–24–113, Revision A, dated August 11, 2005, no further action is required by this paragraph.

(ii) If the serial number is listed in paragraph 1.A of Bombardier Service Bulletin 601R–24–113, Revision A, dated August 11, 2005, within 12 months after April 30, 2009, inspect the ADG identification plate and, as applicable, do the actions of paragraph (f)(1)(ii)(A) or (f)(1)(ii)(B) of this AD.

(A) If the identification plate is marked with the symbol "24–2," no further action is required by this paragraph.

(B) If the identification plate is not marked with the symbol "24–2," modify the ADG wiring in accordance with the Accomplishment Instructions of Bombardier Service Bulletin 601R–24–113, Revision A, dated August 11, 2005.

(2) For airplanes having SNs 7305 through 7990, and 8000 and subsequent: As of April 30, 2009, no ADG as described in Table 1 of this AD may be installed on any airplane, unless the identification plate of the ADG is identified with the symbol "24–2."

Note 1: Bombardier Service Bulletin 601R–24–113, Revision A, dated August 11, 2005, refers to Hamilton Sundstrand Service Bulletin ERPS10AG–24–2, dated February 19, 2004, for further information on identifying the symbol "24–2."

TABLE 1—ADG IDENTIFICATION

ADG Part Number—	Having ADG Serial Number—
604–90800–1 (761339C), 604–90800–17 (761339D), or 604–90800–19 (761339E).	0101 through 0132, 0134 through 0167, 0169 through 0358, 0360 through 0438, 0440 through 0456, 0458 through 0467, 0469, 0471 through 0590, 0592 through 0597, 0599 through 0745, 0747 through 1005, or 1400 through 1439.

(3) Actions done before April 30, 2009, according to Bombardier Service Bulletin 601R-24-113, dated April 22, 2004, are considered acceptable for compliance with the corresponding actions specified in paragraph (f)(1) of this AD, provided the ADG has not been replaced since those actions were done.

New Requirements of This AD: Actions and Compliance

(g) Unless already done, do the following actions.

(1) *For airplanes having SNs 8084 through 8102:* Within 12 months after the effective date of this AD, inspect the SN of the installed ADG. A review of airplane maintenance records is acceptable in lieu of this inspection if the serial number of the ADG can be conclusively determined from that review.

(i) If the serial number is not listed in paragraph 1.A of Bombardier Service Bulletin 601R-24-113, Revision A, dated August 11, 2005, no further action is required by this paragraph.

(ii) If the serial number is listed in paragraph 1.A of Bombardier Service Bulletin 601R-24-113, Revision A, dated August 11, 2005, within 12 months after the effective date of this AD, inspect the ADG identification plate and, as applicable, do the actions of paragraph (g)(1)(ii)(A) or (g)(1)(ii)(B) of this AD.

(A) If the identification plate is marked with the symbol "24-2," no further action is required by this paragraph.

(B) If the identification plate is not marked with the symbol "24-2," modify the ADG wiring in accordance with the Accomplishment Instructions of Bombardier Service Bulletin 601R-24-113, Revision A, dated August 11, 2005.

(2) Actions done before the effective date of this AD according to Bombardier Service Bulletin 601R-24-113, dated April 22, 2004, are considered acceptable for compliance with the corresponding actions specified in paragraph (g)(1) of this AD, provided the ADG has not been replaced since those actions were done.

FAA AD Differences

Note 2: This AD differs from the MCAI and/or service information as follows: The MCAI specifies to inspect SNs 7305 through 7990 and 8000 through 8083. This AD also specifies to inspect S/Ns 8084 through 8102.

Other FAA AD Provisions

(h) 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:* Fabio Buttitta, Airframe and Mechanical Systems Branch, ANE-171, FAA, New York Aircraft Certification Office, 1600 Stewart Avenue, Suite 410, Westbury, New York 11590; telephone (516) 228-7303; fax (516) 794-5531. Before using any approved AMOC on any airplane to which the AMOC applies, notify your principal maintenance inspector

(PMI) or principal avionics inspector (PAI), as appropriate, or lacking a principal inspector, your local Flight Standards District Office. The AMOC approval letter must specifically reference this AD.

(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

(i) Refer to MCAI Canadian Airworthiness Directive CF-2008-09, dated February 5, 2008; and Bombardier Service Bulletin 601R-24-113, Revision A, dated August 11, 2005; for related information.

Issued in Renton, Washington, on October 29, 2009.

Stephen P. Boyd,

Acting Manager, Transport Airplane Directorate, Aircraft Certification Service.

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2009-1021; Directorate Identifier 2009-NM-054-AD]

RIN 2120-AA64

Airworthiness Directives; Bombardier Model CL-600-1A11 (CL-600), CL-600-2A12 (CL-601), and CL-600-2B16 (CL-601-3A, CL-601-3R, and CL-604) Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: We propose to adopt a new airworthiness directive (AD) for the products listed above that would revise an existing AD. This proposed 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:

[S]everal cases of wing anti-ice piccolo duct failure reported on CL-600-2B19 (CRJ) aircraft. Although there have been no failures

reported on Challenger aircraft, similar ducts are installed on the * * * [other] Challenger models. Cracking of the wing anti-ice piccolo ducts could result in air leakage, with an adverse effect on the anti-ice air distribution pattern and a possible unannounced insufficient heat condition.

The unsafe condition is anti-ice system air leakage with a possible adverse effect on the anti-ice air distribution pattern and anti-ice capability without annunciation to the flightcrew, and consequent reduced controllability of the airplane. The proposed AD would require actions that are intended to address the unsafe condition described in the MCAI.

DATES: We must receive comments on this proposed AD by December 21, 2009.

ADDRESSES: You may send comments by any of the following methods:

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