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No. CF-99-09R1

AIRWORTHINESS DIRECTIVE

The following airworthiness directive (AD) may be applicable to an aircraft which our records indicate is registered in your name. ADs are issued pursuant to Canadian Aviation Regulation (CAR) 593. Pursuant to CAR 605.84 and the further details of CAR Standard 625, Appendix H, the continuing airworthiness of a Canadian registered aircraft is contingent upon compliance with all applicable ADs. Failure to comply with the requirements of an AD may invalidate the flight authorization of the aircraft. Alternative means of compliance shall be applied for in accordance with CAR 605.84 and the above- referenced Standard.

This AD has been issued by the Continuing Airworthiness Division (AARDG), Aircraft Certification Branch, Transport Canada, Ottawa, telephone (613) 952-4357.

CF-99-09R1 BOMBARDIER

Applies to the following Bombardier Inc. (formerly Canadair) aircraft:

- (i) Model CL-600-2B19 "Regional Jet", serial numbers 7003 through 7067 and 7069 through 7303; and
- (ii) Model CL-600-2B16 "Challenger", serial numbers 5135 through 5194 and 5301 through 5408.

Compliance is required within 50 hours flight time after 8 April 1999 (the effective date of Airworthiness Directive (AD) CF-99-09), unless already accomplished. For operators in compliance with CF-99-09, this revision does not impose any additional tasking.

An incident was reported wherein the insulation covering on the integrated drive generator (IDG) cable harness on a Regional Jet (RJ) was completely chafed to the bare wire; there was evidence that a brief flash fire occurred. In addition, there have been two reports of chafing damage to the main engine right fuel manifold on RJ aircraft; both left and right installed engines could be affected. This directive has been revised to authorize compliance with additional revisions of the Canadair alert service bulletins as satisfying the requirements specified via AD CF-99-09.

To verify and ensure the integrity of the IDG cables and fuel manifolds, accomplish the following:

Part A. For CL-600-2B19 "Regional Jet" Aircraft

1. For aircraft serial numbers 7003 through 7067 and 7069 through 7301, inspect the IDG cables to verify clearances, and repair or replace the IDG cables as required, in accordance with Canadair Alert Service Bulletin (ASB) A601R-24-095 dated 23 March 1999, or ASB A601R-24-095 Revision A dated 25 March 1999, or later revisions approved by the Director, Aircraft Certification, Transport Canada.

2. For aircraft serial numbers 7003 through 7067 and 7069 through 7303, inspect, verify and correct (if required) the clearance between the 10th stage bleed air check valve and the fuel manifold pigtails in accordance with Canadair ASB A601R-73-008 dated 1 April 1999, or ASB A601R-73-008 Revision A dated

10 April 1999, or later Transport Canada approved revisions. If there is damage to the fuel manifold pigtails, inspect in accordance with General Electric (GE) CF34 Engine Manual SEI-756, Chapter 72-09-05 (Hose and Tube Assemblies - Inspection/Hose and Tube Assemblies - Repair) to determine serviceability; repair if required.

3. Any corrective action (either temporary or permanent) required as a result of the inspections of paragraphs 1 and 2 above must be accomplished before further flight.

4. Report the findings of the above inspections (and corrective action if required) to Bombardier.

Part B. For CL-600-2B16 "Challenger" Aircraft

1. Inspect the IDG cables to verify clearances, and repair or replace the IDG cables as required, in accordance with Bombardier Alert Wire TA601-055 dated 31 March 1999, paragraph 6B, Part A, or Bombardier Alert Service Bulletin (ASB) A601-0524 dated 19 April 1999, or later revisions approved by the Director, Aircraft Certification, Transport Canada.

2. Inspect, verify and correct (if required) the clearance between the 10th stage bleed air check valve and the fuel manifold pigtails in accordance with Bombardier Alert Wire TA601-055 dated 31 March 1999, paragraph 6C, Part B, or Bombardier ASB A604-73-001 dated 19 April 1999, or later Transport Canada approved revisions. If there is damage to the fuel manifold pigtails, inspect in accordance with General Electric (GE) CF34 Service Manual SEI-780, Chapter 72-00-00 (Maintenance Practice 57) to determine serviceability; repair if required.

3. Any corrective action (either temporary or permanent) required as a result of the inspections of paragraphs 1 and 2 above must be accomplished before further flight.

4. Report the findings of the above inspections (and corrective action if required) to Bombardier.

This revision supersedes Airworthiness Directive CF-99-09 issued 6 April 1999.

This directive becomes effective 11 June 1999.

Pursuant to CAR 202.51 the registered owner of a Canadian aircraft shall, within seven days, notify the Minister in writing of any change of his or her name or address. To request a change of address, contact the Civil Aviation Communications Centre (AARC) at Place de Ville, Ottawa, Ontario K1A 0N8, or 1-800-305-2059, or <http://www.tc.gc.ca/civilaviation/communications/centre/address.asp>.

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