



No.	CF-2006-07	1/1
Issue Date 19 April 2006		

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.

Number: CF-2006-07

Subject: AC Contactor Failure

Effective: 25 April 2006

Applicability: Bombardier Inc. Model CL-600-2B19, serial number 7003 thru 7990 and, 8000 and subsequent.

Compliance: When indicated, unless already accomplished.

Background: There have been seven incidents of short circuit failures of Tyco Hartman AC contactors – 1K4XD and K4XA - located in the avionics bay. In several cases, the arcing, which initiated due to the presence of contaminants between the power studs, resulted in a fire which continued until power to the contactor was interrupted, either by burned thru wire or through the generator falling off-line. A wiring modification is required to mitigate the probability of loss of both generators from a 1K4XD contactor failure.

Corrective Action:

1. Within 90 days of the effective date of this directive, modify the wiring on AC Service Bus Contactor K4XA in accordance with the Accomplishment Instructions of Bombardier Alert Service Bulletin A601R-24-121 dated, 18 April 2006, or later revision approved by the Chief, Continuing Airworthiness, Aircraft Certification.
2. Aircraft that have been modified in accordance with In-Service Modification Package IS601R2450-0025, dated 23 December 2005, meet the modification requirements of paragraph 1 of this directive.

Authorization: For Minister of Transport

B. Goyaniuk
Chief, Continuing Airworthiness

Contact: Mr. Ian McLellan, Continuing Airworthiness, Ottawa, telephone 613 952-4362, facsimile 613 996-9178 or e-mail mclelli@tc.gc.ca or any Transport Canada Centre.