



No.	CF-2011-08	1/1
Issue Date 28 April 2011		

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) 521 Division X**. 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), National Aircraft Certification Branch, Transport Canada, Ottawa, telephone 613 952-4357.

Number: CF- 2011-08

Subject: Air-Driven Generator Electrical Power Feeder Cable – Potential Failure Due To Corrosion

Effective: 19 May 2011

Applicability: Bombardier Inc. Model CL-600-2B16 aeroplanes, Serial Numbers 5301, 5302, 5305 through 5318, 5320 through 5328, 5331 through 5349, 5351 through 5367, 5369 through 5408, 5410, 5412 through 5426, 5428 through 5438, 5440 through 5489, 5491 through 5498, 5500 through 5517, 5519 through 5522, 5524 through 5665.

Compliance: As indicated, unless already accomplished.

Background: Three (3) events have occurred where the Air-Driven Generator (ADG) failed to provide power on CL-600-2B19 (CRJ) aeroplanes during their regularly scheduled operational/functional checks. An investigation revealed that in all cases, the silver-plated copper wires within the ADG power feeder cables were damaged due to galvanic corrosion. It was subsequently determined that the silver-plating is inadequate for this application.

In the event of damage to the power feeder cable wires, the ADG may not be able to provide emergency electrical power to the aeroplane.

Although there have been no reported failures to date on any CL-600-2B16 (604 Variant) aeroplanes, a sampling program carried out on these aeroplanes showed signs of microscopic galvanic corrosion on the ADG power feeder cable wires.

This directive is issued to correct this potentially unsafe condition by mandating the replacement of all ADG power feeder cables that contain silver-plated copper wires, with an ADG power feeder cable that contains tin-plated copper wires.

Corrective Actions: Within 72 months from the effective date of this directive, replace the ADG power feeder cable in accordance with the accomplishment instructions in section 2 of the Bombardier Service Bulletin 604-24-024, dated 31 January 2011, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Authorization: For the Minister of Transport, Infrastructure and Communities

ORIGINAL SIGNED BY

Derek Ferguson
Chief, Continuing Airworthiness

Contact: Mr. Robert Farinas, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail CAWWEBFeedback@tc.gc.ca or any Transport Canada Centre.

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 www.tc.gc.ca/civilaviation/communications/centre/address.asp