



AD Number: **CF-2014-37**
Issue Date: **17 October 2014**

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-2014-37 **Effective Date:** 31 October 2014

ATA: 35 **Type Certificate:** A-131

Subject: Oxygen – Oxygen System Flexible Hose – Incorrect Burst Pressure

Applicability: Bombardier Inc.:

Model CL-600-2C10 aeroplanes, serial numbers 10002 through 10336,
Model CL-600-2D15 and CL-600-2D24 aeroplanes, serial numbers 15001 through 15297,
Model CL-600-2E25 aeroplanes, serial numbers 19001 through 19038.

Compliance: Within 5800 hours air time or 44 months, whichever occurs first, from the effective date of this AD.

Background: Design review found that the burst pressure of the flexible hose, used to vent oxygen from the high-pressure relief valve of the oxygen cylinder overboard, is lower than the opening pressure of the high-pressure relief valve. This could cause the flexible hose to burst before it is able to vent the excess oxygen overboard. If an ignition source is present, the accumulation of oxygen in an enclosed space may result in an uncontrolled oxygen-fed fire.

This AD mandates the replacement of the oxygen hose assembly with a new design oxygen hose assembly.

Corrective Actions:

Replace the oxygen hose assembly, part number (P/N) S6946-01, with the new design oxygen hose assembly, P/N BA670-44025-001. Bombardier Service Bulletin (SB) 670BA-35-013, Revision A, dated 23 September 2013, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, provides approved instructions for replacing the oxygen hose assembly.

Replacement of the oxygen hose assembly in accordance with the Original Issue of the above-mentioned SB, dated 21 May 2013, also satisfies the requirements of this AD.

As of the effective date of this AD, it is prohibited for anyone to install oxygen hose assembly P/N S6946-01.

Authorization: For the Minister of Transport,

ORIGINAL SIGNED BY

Derek Ferguson
Chief, Continuing Airworthiness

Contact: Helen Tsai, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail AD-CN@tc.gc.ca or any Transport Canada Centre.