



No.	CF-2008-06	1/1
Issue Date	15 January 2008	

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-2008-06
- Subject:** Fuel System Safety - Introduction of Critical Design Configuration Control Limitations
- Effective:** 05 February 2008
- Applicability:** Bombardier Inc. Models DHC-8-400, DHC-8-401, DHC-8-402 aircraft, all serial numbers.
- Compliance:** Compliance is required as indicated unless already accomplished.
- Background:** Bombardier Aerospace has completed a system safety review of the aircraft fuel system against fuel tank safety standards introduced in Chapter 525 of the Airworthiness Manual through Notice of Proposed Amendment (NPA) 2002-043. The identified non-compliances were then assessed using Transport Canada Policy Letter No. 525-001, to determine if mandatory corrective action is required.

The assessment showed that it is necessary to introduce Critical Design Configuration Control Limitations (CDCCL), in order to preserve critical fuel tank system ignition source prevention features during configuration changes such as modifications and repairs, or during maintenance actions. Failure to preserve critical fuel tank system ignition source prevention features could result in a fuel tank explosion. Revisions have been made to Part 2 "Airworthiness Limitation Items" of the Maintenance Requirements Manual of the affected aircraft models to introduce the required CDCCL.

- Corrective Actions:** To ensure management and control of CDCCL items, within 60 days after the effective date of this directive, each operator must:
 - A. Amend their copies of the DHC-8-400 Maintenance Requirements Manual, PSM 1-84-7, Part 2 "Airworthiness Limitation Items" to incorporate the CDCCL items introduced in Temporary Revisions (TR) ALI-55 and ALI-56.
 - B. Amend any of their DHC-8-400 Series aircraft related procedures and documentation to highlight the existence of CDCCL items noted in paragraph A. above, and to highlight the necessary requirements to maintain the design features of those CDCCL items.

Authorization: For Minister of Transport, Infrastructure and Communities

B. Goyaniuk
Chief, Continuing Airworthiness

Contact: Mr. Philip Tang, Continuing Airworthiness, Ottawa, telephone 613-952-4365, facsimile 613-996-9178 or e-mail: tangp@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 (AAC)** at Place de Ville, Ottawa, Ontario K1A 0N8, or 1-800-305-2059, or www.tc.gc.ca/civilaviation/communications/centre/address.asp

