



No.	<b>CF-2007-32</b>	1/2
Issue Date	<b>17-December 2007</b>	

# 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-2007-32

**Subject:** Fuel System Safety - Introduction of Maintenance Tasks

**Effective:** 3 January 2008

**Applicability:** Bombardier Inc. Models DHC-8-102, DHC-8-103, DHC-8-106, DHC-8-201, DH C-8-202, DHC-8-301, DHC-8-311, DHC-8-314, DHC-8-315 aircraft, all serial numbers.

**Compliance:** Within 60 days after the effective date of this directive, 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 supplemental maintenance tasks are required to prevent potential ignition sources within the fuel system, which could result in a fuel tank explosion. Revisions have been made to Part 2 "Airworthiness Limitations List" of the DHC-8 Maintenance Program Manuals to introduce the required maintenance tasks.

**Corrective Actions:**

**A. Applicable to DHC-8-102, DHC-8-103, DHC-8-106 Aircraft:**

Revise the Transport Canada approved maintenance schedule by incorporating all the Fuel System Limitations (FSL) tasks contained in Temporary Revision (TR) AWL-110 of DHC-8-100 Maintenance Program Manual, PSM 1-8-7, Part 2 "Airworthiness Limitations List".

**B. Applicable to DHC-8-201, DHC-8-202 Aircraft:**

Revise the Transport Canada approved maintenance schedule by incorporating all the FSL tasks contained in Temporary Revision (TR) AWL 2-43 of DHC-8-200 Maintenance Program Manual, PSM 1-82-7, Part 2 "Airworthiness Limitations List".

**C. Applicable to DHC-8-301, DHC-8-311, DHC-8-314, DHC-8-315 Aircraft:**

Revise the Transport Canada approved maintenance schedule by incorporating all the FSL tasks contained in Temporary Revision (TR) AWL 3-109 of DHC-8-300 Maintenance Program Manual, PSM 1-83-7, Part 2 "Airworthiness Limitations List".

**D. Phase-in time for all aircraft that have accumulated 4000 hour air time or more, or 24 months or more since new:**

Within 2000 hours air time or 12 months after the effective date of this directive, whichever occurs first, carry out the initial inspection of those FSL tasks with 6000 hours air time/36 months inspection interval.

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](http://www.tc.gc.ca/civilaviation/communications/centre/address.asp)



**E. Phase-in time for all aircraft that have accumulated 12000 hours air time or more, or 72 months or more since new:**

Within 6000 hours air time or 36 months after the effective date of this directive, whichever occurs first, carry out the initial inspection of those FSL tasks with 18000 hours air time/108 months inspection interval.

**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