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No. CF-96-14

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.

CF-96-14 DE HAVILLAND

Applies to de Havilland DHC-8 aircraft as detailed below:

(a) Models 102, 103, 106, 201 and 202; aircraft serial numbers 203 through 450 which have the following refuel/defuel tube assemblies installed:

P/N 82820107-007

P/N 82820108-005

P/N 82820245-001

P/N 82820246-001

P/N 82820247-001

(b) Models 311, 314, and 315; aircraft serial numbers 202 through 451 which have the following refuel/defuel tube assemblies installed:

P/N 82821014-001

P/N 82821015-003

P/N 82820245-001

P/N 82820246-001

P/N 82820247-001

(c) Any DHC-8 aircraft which has, subsequent to production, been fitted with one or more of the refuel/defuel tube assemblies listed in para (a) or (b) above.

Compliance is required as indicated, unless already accomplished.

Operators have reported fuel leakage from the shroud drain line located adjacent to the refuel/defuel adapter in the right nacelle. Investigation has revealed that some of the welds between the outer shroud and the inner tube of the refuel/defuel assemblies may be of poor quality. Relative motion between the shroud and the tube can result in fatigue cracking of both the tube and the shroud.

To preclude fuel leakage from the fuel/defuel tube assemblies, and a potential fire hazard to the aircraft, accomplish the following:

(1) Within 30 days after the effective date of this directive, inspect the five applicable refuel/defuel tube assemblies of the affected aircraft in accordance with section III, Part 1, "Accomplishment Instructions", of Bombardier Inc. de Havilland Dash 8 Alert Service Bulletin A8-28-20 (hereafter referred to as the referenced service bulletin) dated 3 September 1996, or later revisions approved by the Director, Aircraft Certification, Transport Canada, Ottawa.

(2) Replace leaking tubes prior to further flight and report findings of fuel leakage to Bombardier Regional Aircraft Division in accordance with details provided in Section III, Part 1, Paragraph D of the referenced service bulletin.

(3) At intervals not exceeding 6 months, reinspect the refuel/defuel tube assemblies in accordance with Section III, Part 1 of the referenced service bulletin.

(4) Within 12 months after the effective date of this directive, incorporate de Havilland Modification 8/2589 to the refuel/defuel tube assembly located under the exhaust fingernail - P/N 8282010-007 on Series 100 and 200 and Model 301 aircraft; P/N 82821015-003 on Models 311, 314 and 315 - in accordance with Section III, Part 2 of the referenced service bulletin. Personnel performing the fluorescent penetrant inspection shall be certified to level 2 or 3 of CGSB Standard CAN/CGSB-48.9712-95, MIL-STD-410 or equivalent.

(5) Within 24 months after the effective date of this directive, incorporate de Havilland Modification 8/2589 to the remaining four refuel/defuel tube assemblies in accordance with Section III, Part 3 of the referenced service bulletin.

(6) Modify spare refuel/defuel tube assemblies, in accordance with the applicable part of Section III of the referenced service bulletin, prior to aircraft installation.

Incorporation of de Havilland Modification 8/2589 provides terminating action for the inspection requirements of this directive.

Alternative means of compliance with the requirements of this directive may be used only if approved by the Director, Aircraft Certification, Transport Canada, Ottawa. Any application should be made to the appropriate regional office.

This directive becomes effective 23 September 1996.

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 <http://www.tc.gc.ca/civilaviation/communications/centre/address.asp>.

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