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No. CF-98-24

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-98-24 BOMBARDIER

Applies to all Bombardier Inc. (formerly de Havilland) DHC-8, Series 100 and 300 aircraft which have horizontal stabilizers, serial numbers CAP 003 through CAP 214 fitted.

Note: It may be necessary to check the data plate on the left side of the horizontal stabilizer to identify the stabilizer, since an aircraft may not have a matching stabilizer.

Compliance is required as indicated.

As the result of the inspection mandated by Airworthiness Directive CF-98-01 a total of four aircraft with serial numbers close together were determined to have disbands of the doublers and stringers on the upper and lower skin panels of the horizontal stabilizer. This discovery indicates that the bonding process was defective on a single batch of skins. The follow-up inspections of this directive will ensure that no further problems exist in the above single batch or other batches of the bonded skin panels.

To prevent reduced strength capability and consequent failure of the horizontal stabilizer, which could result in loss of controllability of the aircraft, accomplish the following:

A. For Horizontal Stabilizers, Serial Numbers CAP 003 through CAP 050

1. Within 1 month after the effective date of this directive, perform an Ultrasonic Bond Inspection of the upper and lower skin panels (part numbers 85510025 and 85510026) for disbonding as outlined in de Havilland Non Destructive Testing Manual, PSM 187A, Part 5, Section 55-00-01.
2. Between 12 and 14 months following the above inspection, repeat the inspection in accordance with paragraph A(1) above.

B. For Horizontal Stabilizers, Serial Numbers CAP 003 through CAP 214

The inspection interval in the Airworthiness Limitations list (AWL) is reduced from 3 years to 2 years in accordance with Temporary Revision (TR) No. AWL 63 of the AWL in the Maintenance Program Manual PSM 1-8-7 (for Series 100 aircraft) and TR No. AWL 3-70 of the AWL in Maintenance Program Manual PSM 1-83-7 (for Series 300 aircraft). These inspections are to be phased in as follows:

(a) For Horizontal Stabilizers Serial Numbers CAP 003 through CAP 050:

Following the inspection performed by paragraph of A(2) above, inspect within the next 2 years and thereafter every 2 years.

(b) For Horizontal Stabilizers Serial Numbers CAP 051 through CAP 214:

- (i) Where the next inspection falls due in 1998, perform the inspection as scheduled and thereafter every 2 years.
- (ii) Where the next inspection falls due in 1999, perform the inspection no later than 31 December 1998 and

thereafter every 2 years.

(iii) Where the next inspection falls due after 1 January 2001, perform the inspection 1 year earlier and thereafter every 2 years.

C. Disbonds beyond the local disbond limits defined in de Havilland document PSM 1-8-7A, Part 5, Section 55-00-01 shall be repaired prior to the next flight.

D. Within 7 days following the accomplishment of the inspections required by this directive regardless of the findings, report the results of the inspection to Bombardier Regional Aircraft Division, Technical Services through facsimile (416) 3754539.

This directive becomes effective 4 September 1998.

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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