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No. CF-89-07

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-89-07 DE HAVILLAND

Applies to all Boeing Canada, de Havilland Division model DHC-7 aircraft.

Compliance is required as indicated.

Disbonding of the waffle doubler from the fuselage belly skins has been discovered on a DHC-7 aircraft in service. The cause has not been established but the problem may exist in other DHC-7 aircraft and in other areas of the fuselage. Significant disbonding can result in serious degradation of the static strength, as well as the failsafe integrity of the fuselage primary structure. Disbonding of the doublers also degrades the strength of riveted skin joints.

To detect and repair disbonding of the fuselage skin doublers, and to ensure the integrity of critical fuselage skin riveted joints, accomplish the following in accordance with the instructions in de Havilland Service Bulletin 7-53-33, Revision A dated 9 June 1989 or later revision approved by the Director, Airworthiness Branch, Transport Canada, Ottawa.

A. Within 30 days of the effective date of this directive:

1. Accomplish acoustic inspection for disbonding of the fuselage belly skin doublers between fuselage stations X248.00 and X535.25 below stringers No. 20 left and right;
2. Visually inspect for looseness or working of the rivets in the vertical skin joints, at fuselage stations X535.25 and X576.25 below stringers No. 20 left and right;
3. Visually inspect for looseness or working of the rivets in the fuselage skin joints at station X630.00 around the complete periphery of the fuselage, above and below the passenger and emergency exit doors;
4. Visually inspect for looseness or working of the rivets in the skin longitudinal joint between fuselage stations X424.00 to X484.00 along stringers No. 20 left and right. Pay particular attention to the lower line of rivets;
5. Repair loose rivets before further flight in accordance with schedules and procedures established by Boeing Canada, de Havilland Division; and
6. Repair all disbonding before further flight in accordance with the above-mentioned de Havilland service bulletin.

B. Within 90 days of the effective date of this directive:

1. Accomplish acoustic inspections for disbonding of the fuselage left and right sidewall skin doublers between fuselage stations X248.00 and X596.75 between stringers No. 20 and 10; and
2. Repair disbonding before further flight in accordance with the above-mentioned de Havilland service bulletin.

C. Within 150 days of the effective date of this directive:

1. Accomplish acoustic inspection for disbonding of the fuselage roof skin doublers between fuselage



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stations X248.00 and X630.00 between stringers No. 10 left and right; and

2. Repair disbonding before further flight in accordance with the above-mentioned de Havilland service bulletin.

D. Within 3 days after accomplishing each of the inspections required by paragraphs A, B and C above, regardless of whether or not disbonding or loose rivets were found, report the results in exact written detail to the Director, Airworthiness Branch, Transport Canada, Ottawa, Canada; and to the manufacturer, Boeing Canada, de Havilland Division in accordance with the above-mentioned de Havilland service bulletin.

Transport Canada, Ottawa: Telex: 053-3130

Facsimile: (613) 996-9178

Attention: Mr. Peter von Moos AARDG

Alternate means of compliance with the requirements of this directive may be used only if approved by the Director, Airworthiness Branch, Transport Canada, Ottawa. Any application should be made to the appropriate Regional Office.

This directive becomes effective 31 July 1989.

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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