Transport Canada Transports Canada

Canada

No. CF-88-02R2

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-88-02R2 DE HAVILLAND

Applies to Boeing Canada de Havilland Division DHC-8 Series 100 aircraft, serial numbers 1 to 119 inclusive, equipped with ELDEC Proximity Switch Electronic Control Unit (PSEU) P/N 8-410-03 or 8-410-04.

Compliance is required as indicated.

There has been an incident wherein a DHC 8 landed with the nose gear retracted (with nose gear doors closed) despite a cockpit indication (three green lights) that the gear was safely extended. While in flight prior to this landing, there had been an unsafe indication, which was cleared by cycling the gear. It was determined that a certain fault in the PSEU resulted in the nose gear failing to extend and the incorrect gear position indication. This fault does not affect the alternate gear extension system.

It has been determined that the existence of this fault can be detected by performing an anti-skid check.

To preclude a recurrence of this type of incident, and until the modification is incorporated as indicated at Part 4 below, accomplish the following:

1) Within 48 hours of the effective date of this Directive, unless already accomplished, incorporate the following into the "Operating Limitations" section of the Aircraft Flight Manual (AFM):

A) Perform the following check prior to each flight:

ANTI-SKID switch - OFF

ANTI-SKID switch - ON

Check that INBD and OUTBD ANTI-SKID caution lights illuminate, and then extinguish within 6 seconds. Should the lights fail to illuminate, dispatch is prohibited until maintenance action clears the fault.

B) While performing the "AFTER TAKEOFF" and "APPROACH" procedures, monitor the landing gear indication system during landing gear retraction and extension.

C) Following any anomaly in landing gear indication or operation at any time throughout the flight, the gear must be confirmed "down and locked" following any subsequent extension, via the alternate down-lock verification system, irrespective of a gear "down and locked" (green) indication on the normal landing gear indication system.

NOTE: Inclusion of this Directive in the Operating Limitations Section of the AFM will satisfy requirement No. 1 above.

Any in-flight landing gear anomaly must be cleared after landing by maintenance action prior to subsequent dispatch.

3) Within 48 hours of the effective date of this Directive, unless already advised as required by Directive CF-88-02R1, flight crews are to be advised of the contents of the above restrictions.

4) Before January 31, 1989, incorporate de Havilland Modification 8/1018 in accordance with Service

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Bulletin 8-32-70 Revision A dated September 16, 1988 or later revisions approved by Transport Canada (except serial numbers 1 and 2).

5) Incorporation of the modification at Part 4 above is terminating action for the restrictions at Part 1 and Part 2 above. After incorporating modification 8/1018, remove the limitations at Part 1 above from the AFM and advise Flight Crews of the contents of this Directive.

Alternative means of compliance with the requirements of this Directive may be used only if approved by the Director, Airworthiness Branch, Transport Canada, Ottawa.

This Revision supersedes the previous issue of this Airworthiness Directive CF-88-02R1 issued on February 4, 1988.

This Directive becomes effective September 16, 1988.

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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