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No. CF-94-09

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-94-09 DE HAVILLAND

Applies to the following de Havilland Inc. DHC-8 aircraft:

- (i) Models 102, 103 and 106, serial numbers 3 to 369; and
- (ii) Models 301, 311 and 314, serial numbers 100 to 370.

Compliance is required as indicated, unless already accomplished.

Transport Canada Airworthiness Directive (AD) CF-85-06R3 was issued in 1990 to minimize the probability of an engine flameout following a lightning strike. However, a DHC-8 aircraft incorporating the modifications mandated by AD CF-85-06R3 experienced an engine flameout after a lightning strike. Subsequent investigation revealed several engine control cable harness shields were not grounded in accordance with the modifications mandated by the AD.

To verify the integrity of the DHC-8 engine control cable harness shield grounds, accomplish the following:

A. For Models 102, 103 and 106:

Within 90 days after the effective date of this directive, inspect the electronic engine control (EEC) lightning protection cable harness shield grounds in accordance with de Havilland Dash 8 Service Bulletin (SB) 8-73-18 dated 29 April 1994, or its later revisions approved by the Director, Airworthiness Branch, Transport Canada.

1. If the electrical resistance for Class A shield grounds (as stated in SB 8-73-18) exceeds the value specified in the service bulletin, repair action specified in SB 8-73-18 must be carried out to restore the integrity of the shield ground, within 50 flight hours or at the next 'L' check, whichever occurs first after the inspection specified in paragraph A above.
2. If the electrical resistance for Class B shield grounds (as stated in SB 8-73-18) exceeds the value specified in the service bulletin, repair action specified in SB 8-73-18 must be carried out to restore the integrity of the shield ground, within 180 days after the effective date of this directive.
3. If the interim shield ground is installed as outlined in SB 8-73-18, Accomplishment Instructions paragraphs 19 and 93, the aircraft must be restored to post-Modification 8/0772 configuration in accordance with SB 8-73-18, Accomplishment Instructions paragraph 161, within one year after the effective date of this directive.

B. For Models 301, 311 and 314:

Within 90 days after the effective date of this directive, inspect the EEC lightning protection cable harness shield grounds in accordance with de Havilland Dash 8 SB 8-73-19 dated 29 April 1994, or its later revisions approved by the Director, Airworthiness Branch, Transport Canada.

1. If the electrical resistance for Class A shield grounds (as stated in SB 8-73-19) exceeds the value specified in the service bulletin, repair action specified in SB 8-73-19 must be carried out to restore the integrity of the shield ground, within 50 flight hours or at the next 'L' check, whichever occurs first after the inspection specified in paragraph B above.

2. If the electrical resistance for Class B shield grounds (as stated in SB 8-73-19) exceeds the value specified in the service bulletin, repair action specified in SB 8-73-19 must be carried out to restore the integrity of the shield ground, within 180 days after the effective date of this directive.

3. If the interim shield ground is installed as outlined in SB 8-73-19, Accomplishment Instructions paragraphs 19 and 112, the aircraft must be restored to post-Modification 8/0772 configuration in accordance with SB 8-73-19, Accomplishment Instructions paragraph 200, within one year after the effective date 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. Any application should be made to the appropriate regional office.

This directive becomes effective 3 June 1994.

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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