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No. CF-85-06R3

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-85-06R3 DE HAVILLAND

Applies to Boeing of Canada, de Havilland Division DHC-8 Series 100 and 300 aircraft serial numbers (S/N)

1-99, 101, 102, 104-106, 109-142, 144-148, 150-163 and 165.

Compliance is required as indicated.

The engine electronic fuel control units and associated circuitry are considered vulnerable to transients induced by lightning strike. This could cause reduction in engine power requiring corrective action by the pilot.

To preclude unacceptable loss of power during critical phases of flight, by minimizing the probability of lightning strike and eliminating the possibility of engine flame-out following a lightning encounter, accomplish the following:

1. For DHC-8 Series 100 aircraft, all affected serial numbers, within 48 hours, unless already accomplished, advise flight crews of the limitations noted below, and incorporate the following into the limitations section of the Aircraft Flight Manual (this may be accomplished by including a copy of this directive in the Aircraft Flight Manual):
 - a. Take-off is prohibited with thunderstorms or lightning in the vicinity of the take-off climb flight path of the aircraft;
 - b. Operation with engine ignition selected to manual is required when operating below 1500 feet AGL in the vicinity of any storm cloud formation.
2. For DHC-8 Series 100 aircraft, all affected serial numbers except for S/N 1 and 2, incorporate the following modifications by 31 December 1989:
 - a. de Havilland Modification 8/0597 as detailed in Service Bulletin 8-73-7 Revision D dated 30 October 1987, or later revisions approved by the Director, Airworthiness Branch, Transport Canada, Ottawa;
 - b. de Havilland Modification 8/0598 as detailed in Service Bulletin 8-71-10 Revision A dated 13 March 1987, or later revisions approved by Transport Canada;
 - c. de Havilland Modification 8/0964 as detailed in Service Bulletin 8-72-2 dated 29 July 1988, or later revisions approved by Transport Canada;
 - d. de Havilland Modification 8/0813 as detailed in Service Bulletin 8-72-4 dated 29 July 1988, or later revisions approved by Transport Canada.
3. After all the modifications of paragraph 2 above have been incorporated, the limitations of paragraph 1 are to be removed from the limitations section of the Aircraft Flight Manual and the flight crews are to be advised of the contents of this directive.
4. For DHC-8 Series 100 and 300 aircraft, S/N 3-99, 101, 102, 104-106, 109-142, 144-148, 150-163 and 165, incorporate by 1 June 1990 de Havilland Modification 8/1416 as detailed in Service Bulletin 8-61-16.



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dated 15 December 1989, or later revisions approved by the Director, Airworthiness Branch, Transport Canada, Ottawa.

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 supersedes Airworthiness Directive CF-85-06R2 issued 22 September 1988.

This directive becomes effective 19 March 1990.

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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