



AIRWORTHINESS DIRECTIVE

This Airworthiness Directive (AD) is issued pursuant to Canadian Aviation Regulation (CAR) 521.427. No person shall conduct a take-off or permit a take-off to be conducted in an aircraft that is in their legal custody and control, unless the requirements of CAR 605.84 pertaining to ADs are met. Standard 625 - Aircraft Equipment and Maintenance Standards Appendix H provides information concerning alternative means of compliance (AMOC) to ADs.

Number:

CF-2017-20

Effective Date:

21 June 2017

ATA:

27

Type Certificate:

A-82

Subject:

Flight Controls – Aileron Cable Wear At Wing Root Rib and At Fuselage Skin

Applicability:

Viking Air Ltd. (formerly Bombardier Inc.) model DHC-6 aeroplanes, all series, all serial numbers.

Compliance:

As indicated below, unless already accomplished.

Background:

There have been reports of accelerated aileron cable wear because of contact with the fuselage skin cut-out or the wing root rib. Wear that is not detected can lead to failure of the aileron cable and loss of control of the aeroplane.

The root cause of this problem has not yet been identified. This AD requires inspection of the aeroplane and reporting of the inspection results to Viking Air Ltd. This AD is considered an interim action and further AD action may follow.

Aileron cables are typically replaced at intervals of 60 months in accordance with the DHC-6 maintenance schedule.

Corrective Actions:

- A. Within 50 hours air time from the effective date of this AD or before the aileron cables have accumulated 300 hours air time or more, whichever occurs later, inspect and if necessary, replace the aileron cables in accordance with Viking Air Ltd. Service Bulletin (SB) V6/0022 Revision B, dated 13 June 2014, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
- B. Thereafter, at four intervals of not more than 500 hours air time, inspect and if necessary, replace the aileron cables in accordance with Viking Air Ltd. SB V6/0022 Revision B, dated 13 June 2014, or later revision approved by the Chief, Continuing Airworthiness, Transport Canada.

NOTE: Upon completion of the five inspections detailed in Corrective Actions A and B, resume the inspections specified in the DHC-6 maintenance schedule.

- C. Report the results of each inspection to Viking Air Ltd. in accordance with the reporting instructions in Viking Air Ltd. SB V6/0022 Revision B, dated 13 June 2014, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
- D. Installation of new aileron cables or re-installation of existing cables that have been removed for any reason re-starts the series of five inspections detailed in Corrective Actions A and B of this AD.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 7 June 2017

Contact:

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