



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-2018-27

Effective Date:

26 October 2018

ATA:

27

Type Certificate:

A-86

Subject:

Flight Controls - Excess Fiberglass Content in Aileron Control System and Flap Interconnect System Components

Applicability:

Viking Air Limited (formerly Bombardier Inc.) aeroplanes:

Model CL-215-6B11 (CL-215 variant), serial numbers 1085, 1086, 1093, 1094, 1098 through 1101.

Model CL-215-6B11 (CL-415 variant), serial numbers 2076 through 2090.

Compliance:

As indicated below, unless already accomplished.

Background:

It was found that a supplier fabricated Teflon™ parts with a charge of 15% fiberglass content in lieu of the required 5%. Parts manufactured with this higher percentage of fiberglass may cause wear and rupture of control cables due to greater friction if contacted.

This AD mandates a visual inspection of the aileron control system cables and flap interconnect system cables in the area of the aileron power control unit. The inspection is required to ensure that there is no cable damage or disconnect until the replacement of the Teflon™ parts has been completed in the aileron control system, the aileron/rudder interconnect and the aileron power unit beam. This AD also requires replacement of the Teflon™ parts.

Corrective Actions:

Part 1 - Inspection of the Aileron Control Systems Cables and Flap Interconnect System Cables

1. Initially, within 50 hours air time from the effective date of this AD, carry out visual inspections of the aileron control cables and flap interconnect system cables in accordance with the applicable Bombardier Service Bulletin (SB) 215-3185 or 215-4476 both dated 28 January 2014, Revision 1 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada. Incorporation of the initial revision (Revision NC) of the SBs does not satisfy the requirements of Part 1, since that revision of the SBs did not include inspection of the flap interconnect system cables.
2. Repeat the above inspection at intervals not exceeding 50 hours air time until Part 2 of this AD has been accomplished on the aeroplane.

Part 2 - Replacement of powered aileron system and flap interconnect system Teflon™ parts

Within 29 months from the effective date of this AD, replace the Teflon™ parts of the powered aileron system and the flap interconnect system in accordance with Parts A, B and C of the applicable Bombardier SB 215-3186, Revision 3 or SB 215-4477, Revision 2 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Replacement of Teflon™ parts in accordance with previous revisions of the above-noted SBs prior to the effective date of this AD also meets the requirements of Part 2 of this AD.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 12 October 2018

Contact:

Ross McGowan, Continuing Airworthiness, Ottawa, telephone 888-663-3639, facsimile 613-996-9178 or e-mail AD-CN@tc.gc.ca or any Transport Canada Centre.