



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) 521 Division X**. 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), National Aircraft Certification Branch, Transport Canada, Ottawa, telephone 613 952-4357.

Number: CF-2014-34 **Effective Date:** 16 October 2014
ATA: 54 **Type Certificate:** A-120
Subject: Nacelles/Pylons - Cracks in Engine Outboard Nacelles Upper Longerons
Applicability: Viking Air Ltd. (formerly Bombardier Inc.) model DHC-7-1, DHC-7-100 and DHC-7-150 aeroplanes.
Compliance: Within 6 months from the effective date of this AD, unless already accomplished.
Background: Longitudinal cracks were discovered in the outboard nacelles upper longeron channels and angles at station XN1 78. The cracks were partially hidden by bearing blocks, Part Number (P/N) 75420978, at the nacelle latch locations. Undetected, these cracks may lead to the loss of stiffness in the forward engine mount; which may lead to a catastrophic failure.

Corrective Actions:

Carry out a onetime visual inspection of the outboard nacelles upper longeron channels and angles, in accordance with Viking Air Ltd. Service Bulletin V7-54-02, Revision NC, dated 14 December 2012 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

If any cracks are found, contact Technical Support at Viking Air Ltd. for an approved repair and incorporate the repair prior to further flight. The approved repair must specifically reference this AD.

Authorization: For the Minister of Transport,

ORIGINAL SIGNED BY

Robin Lau
Acting Chief, Continuing Airworthiness

Contact: Yosha Mendis, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail AD-CN@tc.gc.ca or any Transport Canada Centre.