



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) with ADs.

Number:

CF-2024-13

Effective Date:

13 May 2024

ATA:

29

Type Certificate:

A-236

Subject:

Hydraulic Power – Improperly Torqued Rudder Power Control Unit (PCU) Hydraulic Fittings

Applicability:

Airbus Canada Limited Partnership (ACLP) (formerly C Series Aircraft Limited Partnership (CSALP), Bombardier Inc.) model BD-500-1A11 aeroplanes, serial numbers 55170, 55172, and 55174 through 55183.

Compliance:

As indicated below, unless already accomplished.

Background:

Following an in-service hydraulic fluid leakage event, an investigation at the supplier indicated the potential use of an uncalibrated torque wrench when tightening the union fittings at the pressure and return interfaces of all three rudder PCUs. Uncorrected, this can cause these union fittings to come loose and leak, resulting in the loss of one or more hydraulic systems.

To address this unsafe condition, this AD mandates the Alert Operators Transmission (AOT) released by ACLP that provides procedures for the torquing of the affected fittings as well as the application of a torque seal at each of these fittings.

Corrective Actions:

Within 1250 hours air time from the effective date of this AD, torque the rudder PCU hydraulic fittings and apply the torque seal on the rudder PCU hydraulic fittings in accordance with Section 4.2 of ACLP AOT A220-AOT-29-17-001 Revision A, dated 3 April 2024, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Compliance with Section 4.2 of ACLP AOT A220-AOT-29-17-001 Revision --, dated 1 March 2024, prior to the effective date of this AD, also meets the requirements of this AD.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 29 April 2024

Contact:

Hilary Ross, Continuing Airworthiness, Ottawa, telephone 888-663-3639, facsimile 613-996-9178 or e-mail TC.AirworthinessDirectives-Consignesdenavigabilite.TC@tc.gc.ca or any Transport Canada Centre.