



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-2022-43

Effective Date:

23 August 2022

ATA:

26

Type Certificate:

A-276

Subject:

Fire Protection – Visual Check of the Engine and Auxiliary Power Unit (APU) Fire Extinguishing Bottle Pressure Gauges – Airworthiness Limitations Implementation

Applicability:

MHI RJ Aviation ULC. (MHIRJ) (formerly Bombardier Inc.) model CL-600-2C10, CL-600-2C11, CL-600-2D15, CL-600-2D24 and CL-600-2E25 aeroplanes, all serial numbers.

Compliance:

As indicated below, unless already accomplished

Background:

Following a revision of the aeroplane safety assessment, it was determined that the existing Maintenance Review Board (MRB) Task number 262000-201 for the visual check of the engine and APU extinguishing bottle pressure gauges could not be used as credit to meet the certification requirements for the loss of engine or APU fire extinguishing capability.

An escalation or non-implementation of MRB Task number 262000-201 may lead to an unannounced loss or low quantity of fire extinguishing agent in the engine and APU fire extinguishing bottles. This condition, if not corrected, and in combination with an engine or APU fire, may lead to the inability to extinguish and suppress the fire.

To address this unsafe condition and prevent escalation of inspection tasks, Certification Maintenance Requirements (CMR) Tasks number 26-20-00-101 and number 26-20-00-102 were introduced for the engine and APU fire extinguishing bottle pressure gauges, respectively.

This AD mandates the incorporation of the new CMR Tasks number 26-20-00-101 and number 26-20-00-102 in Maintenance Requirements Manual (MRM) Part 2 of CSP B-053 and requires that they be performed within the phase-in and intervals therein.

Corrective Actions:

- A. Within 60 days from the effective date of this AD, incorporate the CMR Tasks number 26-20-00-101 and number 26-20-00-102 for the visual checks of the engine and APU fire extinguishing bottle pressure gauges in the MRM Part 2 of CSP B-053, as introduced by Temporary Revision (TR) ALI-0760, dated 8 November 2021.
- B. Within 5000 hours air time from 8 November 2021 (the release date of TR ALI-0760), perform the visual checks of the engine and APU fire extinguishing bottle pressure gauges in accordance with CMR Tasks number 26-20-00-101 and number 26-20-00-102 of the MRM Part 2 of CSP B-053, as introduced by TR ALI-0760, dated 8 November 2021.
- C. Thereafter, perform the visual checks of the engine and APU fire extinguishing bottle pressure gauges, in accordance with the intervals specified in the CMR Tasks number 26-20-00-101 and number 26-20-00-102 in the MRM Part 2 of CSP B-053, as introduced by TR ALI-0760, dated 8

November 2021.

Compliance with superseding TRs affecting these tasks, or later revisions of the MRM, approved by Transport Canada, also meets the intent of this AD.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Philippe Ngassam
Director, National Aircraft Certification
Issued on 9 August 2022

Contact:

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