



# 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-2019-40

**Effective Date:**

15 November 2019

**ATA:**

34

**Type Certificate:**

A-131

**Subject:**

Navigation System – Flight Management System (FMS), Inertial Reference System (IRS) and Attitude and Heading Reference System (AHRS) – Outdated Magnetic Variation (MV) Tables

**Applicability:**

Bombardier Inc. model CL-600-2B19, 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:**

Outdated MV tables inside navigation systems can affect their performance and result in the presentation of misleading magnetic heading references on the Primary Flight Displays (PFDs) and Multi-Function Displays (MFDs) positioning the aeroplane outside of the terrain and obstacle protection provided by instrument flight procedures and flight route designs. Some Bombardier Regional Jets have navigation units with MV tables that are obsolete which can lead to significantly inaccurate heading, course and bearings calculations.

This AD mandates the Airplane Flight Manual (AFM) update to the FMS, IRS and AHRS limitations to address the above mentioned unsafe condition.

**Corrective Actions:**

1. Within 30 days from the effective date of this AD, amend the applicable Transport Canada (TC) approved AFM by incorporating the revision to the Chapter 02 – Limitations – Navigation System Limitations, as listed in the Table below:

| Aeroplane Model             | AFM No    | AFM Revision   |
|-----------------------------|-----------|--|
| CL-600-2B19                 | CSP A-012 | AFM Revision 71A, dated 26 April 2019, or later revisions of this procedure approved by TC.    |
| CL-600-2C10 and CL-600-2C11 | CSP B-012 | AFM Revision 26, dated 01 March, 2019, or later revisions of this procedure approved by TC.    |
| CL-600-2D15 and CL-600-2D24 | CSP C-012 | AFM Revision 21, dated 29 March 2019, or later revisions of this procedure approved by TC.     |
| CL-600-2E25                 | CSP D-012 | AFM Revision 21, dated 15 February, 2019, or later revisions of this procedure approved by TC. |

2. Following incorporation of the above-mentioned AFM revisions, advise all flight crews of the changes introduced by these revisions.

**Authorization:**

For the Minister of Transport,

*ORIGINAL SIGNED BY*

Rémy Knoerr  
Chief, Continuing Airworthiness  
Issued on 1 November 2019

**Contact:**

Gordanko Jeremic, Continuing Airworthiness, Ottawa, telephone 888-663-3639, facsimile 613-996-9178  
or e-mail [AD-CN@tc.gc.ca](mailto:AD-CN@tc.gc.ca) or any Transport Canada Centre.