



# 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-2014-20R1

**Effective Date:**

12 August 2015

**ATA:**

71

**Type Certificate:**

A-131

**Subject:**

Power Plant - Engine Fan Cowl Panel Dislodgement During Flight

**Revision:**

Supersedes AD CF-2014-20, issued 9 July 2014.

**Applicability:**

Bombardier Inc. model CL-600-2B19 aeroplanes.

**Compliance:**

Within 6000 hours air time from the effective date of the original issue of this AD (23 July 2014), unless already accomplished.

**Background:**

There have been a number of engine fan cowl panel dislodgement incidents reported on the Bombardier CL-600-2B19 aeroplane fleet. The dislodged panels may cause damage to the fuselage and flight control surfaces of the aeroplane. Also, the debris from a dislodged panel may result in runway contamination and has the potential of causing injury on the ground.

Although the majority of the subject panel dislodgements were reported on the first or second flight after an engine maintenance task was performed that required removal and reinstallation of the subject panels, the frequency of the dislodgements indicates that the existing attachment design is prone to human (maintenance) error.

In order to mitigate the potential safety hazard of the subject panel dislodgement, Bombardier had issued Service Bulletin (SB) 601R-71-034 to install additional fasteners for the attachment of the engine fan cowl panels to the nacelle's structure. Compliance of the above SB was mandated by the original issue of AD CF-2014-20 dated 9 July 2014.

Bombardier has now revised the SB 601R-71-034 (to Revision C) requiring weight and balance data to be included in the Weight and Balance manual for aeroplanes modified per the subject SB. This revised AD is issued to mandate compliance with SB 601R-71-034 Rev C.

**Corrective Actions:**

Modify the left and right fan cowl access panels and the nacelle attaching structures to facilitate installation of additional fasteners on all affected aeroplanes and update the aeroplane weight and balance manual in accordance with Bombardier SB 601R-71-034 Rev C, dated 8 May 2015, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

For aeroplanes previously modified in accordance with the earlier versions of SB 601R-71-034 in compliance with AD CF-2014-20, it is only necessary to update the Weight and Balance manual of the affected aeroplane in accordance with Bombardier SB 601R-71-034 Rev C accomplishment instructions.

**Authorization:**

For the Minister of Transport,

*ORIGINAL SIGNED BY*

Philip Tang  
Chief, Continuing Airworthiness  
Issued on 29 July 2015

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