



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-2023-11

Effective Date:

9 March 2023

ATA:

28

Type Certificate:

H-92

Subject:

Fuel System – Standpipe Assembly Sharp Edges Leading to Fuel Quantity Wiring Harness Chafing Condition

Applicability:

Bell Helicopter Textron Canada Limited (Bell) model 407 helicopters, serial numbers 54832 through 54931, 54933 through 54939, and 54942 through 54954.

Compliance:

Within 300 hours air time or 6 months, whichever occurs first, from the effective date of this AD, unless already accomplished.

Background:

Bell was made aware of a quality escape of the fuel system standpipe assembly, part number (P/N) 407-062-032-103, where the standpipes may have been delivered with sharp edges at the internal weld joints.

If not corrected, this condition could lead to fuel quantity system wiring damage, loss of or erratic fuel quantity indication or a potential for fuel tank ignition.

Corrective Actions:

- A. Inspect the fuel system standpipe assembly, P/N 407-062-032-103, and fuel quantity harness assembly, in accordance with the Accomplishment Instructions specified in Bell Alert Service Bulletin (ASB) 407-21-124 Initial Release, dated 1 February 2022, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
- B. If sharp edges are present in the standpipe, before further flight, rework the fuel system standpipe assembly, P/N 407-062-032-103, in accordance with the Accomplishment Instructions specified in Bell ASB 407-21-124 Initial Release, dated 1 February 2022, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
- C. If damage is found on the fuel quantity harness assembly, before further flight, contact Bell for a review and disposition instructions, in accordance with the Accomplishment Instructions specified in Bell ASB 407-21-124 Initial Release, dated 1 February 2022, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada. The disposition instructions provided by Bell for serviceable harnesses must be accomplished before further flight, in accordance with the instructions provided. Unserviceable harnesses must be replaced before further flight.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 23 February 2023

Contact:

Grant Walker, 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.