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Transports Canada

AD Number: CF-2019-08

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: Effective Date:
CF-2019-08 19 March 2019
ATA: Type Certificate:

73 H-112

Subject:

Engine Fuel and Control - Change of Flight Manual Limitation for Jet Band JP-4 Fuels

Applicability:

Bell Helicopter Textron Canada Limited (BHTCL) model 505 helicopters, serial numbers 65011 and subsequent.

Compliance:

Within 30 days from the effective date of this AD, unless already accomplished.

Background:

BHTCL has determined that the altitude limitations in the original rotorcraft flight manual as they pertain to certain types of fuels were not valid. The manual permits the operation of the helicopter at higher altitudes for Jet B and JP-4 wide-cut fuel types but the performance of the engine has not been demonstrated to be satisfactory at those combinations of altitude and fuel types.

BHTCL has revised the flight manual to reflect the correct operating limitations when these types of fuel are used. Revision 3 to the flight manual includes changes to Figure 1-6 that define the correct limitations for all approved fuel types.

Failure to comply with the correct operating limitations when using wide-cut fuels could result in low fuel pressure, engine flame-out or engine power interruption. Engine power interruption is defined as a change in any engine performance parameter (e.g. gas generator speed, power turbine speed, main gas temperature, output torque) outside its normal limits for the prevailing operating conditions.

Corrective Actions:

Update the rotorcraft flight manual, BHT-505-FM-1, to Revision 3 or to later revisions approved by Transport Canada

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr Chief, Continuing Airworthiness Issued on March 5 2019

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