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-2019-01

Effective Date:

22 January 2019

ATA:

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Supplemental Type Certificate:

SH98-35

Subject:

Standard Practices – Helicopter External Transport System (HETS™) - Unapproved Parts, Inadequate Service Life Limits and Maintenance Requirements

Replacement:

Supersedes AD CF-2014-26, issued 15 August 2014.

Applicability:

HETS™ certified under Transport Canada Supplemental Type Certificate (STC) SH98-35, Issue 1 and Issue 2 installed on the following helicopter models:

Bell Helicopter Textron Canada Ltd. model 206B, 206L, 206L-1, 206L-3, 206L-4 and 407.

Airbus Helicopters (formerly Eurocopter France) model AS 350 B, AS 350 B1, AS 350 B2, AS 350 B3, AS 350 BA and AS 350 D.

Airbus Helicopters (formerly Eurocopter France) model AS 355 E, AS 355 F, AS 355 F1 and AS 355 F2.

MD Helicopter Inc. model 369, 369A, 369H, 369HM, 369HS, 369HE, 369D, 369E, 369F, 369FF and 500N.

Important note: HETS™ approved under SH98-35 are only eligible for installation on helicopter models listed above and they are not eligible for any other models not specifically listed above (Example: not eligible for installation on AS 355 N or AS 355 NP).

Compliance:

As indicated below, unless already accomplished.

Background:

Transport Canada has determined that an unsafe condition exists due to deviations from approved maintenance and inspection tasks, and erroneous interpretation of published service life limits for the HETS™ components. In addition, some in-service HETS™ components were found to be lacking the required manufacturing approval. This condition, if not corrected, could result in the failure of HETS™ components and the unintended release of the helicopter's external load.

This AD also mandates corrective actions specific to the Remote Safety Hook (RSH) component of the HETS™: the intent of AD CF-2014-26 was to permanently remove all HETS™ RSH from service. The corrective actions for RSH that are included in this AD are issued to remove HETS™ 'configuration B' from service. Operators wishing to continue using HETS™ are required to operate in 'configuration A', which relies on a belly band as a secondary means of attaching HETS™ to the helicopter.

Corrective Actions:

Part I – Component Removal

A. From the effective date of this AD, remove all RSH part number (P/N) RR01-100-00-00 from service.

B. From the effective date of this AD, it is prohibited to install any RSH P/N RR01-100-00-00.

C. Within 14 days from the effective date of this AD, remove from service the HETS™ components with an unknown manufacturing date, or components with time-since-manufacture exceeding the time between overhaul (TBO) calendar times specified in Emergco Overhaul Schedule document OHR-HETS-100-00-00 revision NI, dated 31 March 2014 or later revisions approved by Transport Canada Civil Aviation (TCCA).

D. Within 4 years from the date of manufacture, remove from service the HETS™ components manufactured on or after 1 January 2013.

Part II – Inspection for Condition

A. Within 12 months from the date of manufacture of the HETS™ component, carry out an initial inspection of the HETS™ components manufactured on or after 1 January 2013, in accordance with the applicable Emergco Instructions for Continued Airworthiness (ICA) listed in Table 1 below. Thereafter, repeat the inspection at intervals not to exceed 12 months. The inspections shall be carried out by an appropriately-rated Approved Maintenance Organization (AMO). If any discrepancy is found, replace each discrepant HETS™ component with a serviceable component prior to returning the HETS™ to service.

Part III – Incorporation of Flight Manual Supplement

A. From the effective date of this AD, amend the flight manual of each helicopter that is equipped with affected HETS™ listed in the applicability section of this AD, by incorporating the applicable Emergco Flight Manual Supplement listed in Table 2 below and inform all flight crew of the amendment.

Table 1

Helicopter Model	Emergco ICA (Maintenance Manual Supplement)
Airbus Helicopters AS350/355 Series	MMS-AS350/55-1002 Revision B, dated 12 March 2014, or later revisions accepted by TCCA
Bell Helicopter Textron Canada Ltd. model 206B and 206L Series	MMS-B206-1001 Revision B, dated 1 May 2014, or later revisions accepted by TCCA
Bell Helicopter Textron Canada Ltd. model 407	MMS-B407-1004 Revision B, dated 1 May 2014, or later revisions accepted by TCCA
MD Helicopter Inc. model 369 Series and 500N	MMS-MD500-1003 Revision B, dated 1 May 2014, or later revisions accepted by TCCA

Table 2

Helicopter Model	Emergco Flight Manual Supplement
Airbus Helicopters model AS350 Series equipped with belly-mounted cargo hook part number ECL048	FMS-AS350-1001 Revision B, dated 31 March 2014, or later revisions approved by TCCA
Airbus Helicopters model AS350/355 Series equipped with swing-mounted cargo hook part number ECL049	FMS-AS350/55-1002 Revision B, dated 31 March 2014, or later revisions approved by TCCA
Bell Helicopter Textron Canada Ltd. model 206B Series	FMS-B206B-1003 Revision B, dated 31 March 2014, or later revisions approved by TCCA
Bell Helicopter Textron Canada Ltd. model 206L Series	FMS-B206L-1004 Revision B, dated 31 March 2014, or later revisions approved by TCCA
Bell Helicopter Textron Canada Ltd. model 407	FMS-B407-1007 Revision B, dated 31 March 2014, or later revisions approved by TCCA
MD Helicopter Inc. model 369 Series and 500N equipped with Gajon Associates Limited belly pod (STC SH78-1)	FMS-MD500P-1006 Revision B, dated 31 March 2014, or later revisions approved by TCCA
MD Helicopter Inc. model 369 Series and 500N not equipped with Gajon Associates Limited belly pod (STC SH78-1)	FMS-MD500D-1005 Revision B, dated 31 March 2014, or later revisions approved by TCCA

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 8 January 2019

Contact:

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