



1. Applicability

All military surplus helicopters.

2. Purpose

To advise operators and maintainers to investigate the basis for and the correct implementation of the continuing airworthiness requirements of the applicable Type Certificate Data Sheet (TCDS) and incorporated Supplemental Type Certificates (STC), particularly in regard to the retirement lives of all life-limited components.

3. Background

A recent audit of an ex-military helicopter system of maintenance (SoM) suggests that it is possible that some military surplus helicopters may have a SoM which does not meet the continuing airworthiness requirements of the applicable TCDS. In addition to this, many operators may have incorporated STCs to increase the load-carrying capability of the helicopter and conducting repetitive heavy-lift operations without re-evaluation of the fatigue life of life-limited components as required by the TCDS. Affected helicopters could be operating with life-limited parts of unknown status, and therefore liable to catastrophic failure.

4. Recommendations

It is strongly recommended that operators conduct a forensic examination of the technical records of the helicopter to establish the following:

1. The helicopter data plate and/or supplemental data plate issued by the Type Certificate (TC) holder, correctly reflects the helicopter model/type, and the serial number (S/N) as recorded on the applicable TCDS.
2. The helicopter type /model is specifically identified by the correct CASA Type Acceptance Certificate (TAC) / TCDS or by a Certificate of Type Approval (CTA), Type Certificate (TC) or TAC issued under Civil Aviation Regulation (CAR) 22 or 22A /CAR 21.13A or CAR 21.29/21.29A; or for older aircraft, where the certification basis is still against Civil Aviation Order (CAO) Part 101 series. Refer to Appendix "A" to this AWB.
3. The helicopter Log Book Statement identifies all the applicable documents required for servicing and maintaining the helicopter as listed in the TCDS.
4. The applicable maintenance documents have been properly incorporated into the SoM and are being followed.



AIRWORTHINESS BULLETIN

Military Surplus Helicopters - Continuing
Airworthiness

AWB 02-040 **Issue :** 1
Date : 5 July 2011

5. That any STC installed on the helicopter is eligible and that the STC has been licensed to the helicopter by serial number.
6. An assessment for possible conflict between multiple STCs has been conducted and appropriate action taken where required.
7. The effects of an incorporated STC or combination of STCs designed to increase the load-carrying capacity of the helicopter upon the fatigue lives of limited-life components has been properly assessed, documented and adhered to.
8. The requirements for accounting for the effects of repetitive heavy lifting on the fatigue lives of limited-life components has been properly assessed, documented and adhered to, particularly if such operations are accomplished using STCs which enable the helicopter to lift higher loads than identified in the TCDS. See also CASA Advisory Circular (AC) 21.6(0) Restricted Category Aircraft - Certification Paragraph 12.2 in relation to overweight operations and AWB 02-015 Issue 2 for guidance on what to do if the helicopter is being used in a different role to that envisaged in the original design role of the helicopter.

5. Enquiries

Enquiries with regard to the content of this Airworthiness Bulletin should be made via the direct link e-mail address:

AirworthinessBulletin@casa.gov.au

or in writing, to:

Airworthiness & Engineering Branch
Civil Aviation Safety Authority
GPO Box 2005, Canberra, ACT, 2601



AIRWORTHINESS BULLETIN

Military Surplus Helicopters - Continuing
Airworthiness

AWB 02-040 **Issue :** 1
Date : 5 July 2011

AWB 02-040 Issue 1 Appendix A

Please note that the following table includes details for types and models which have been approved for issue of an Australian C of A:

- (a) for which a CTA/TC/TAC has been issued under CAR 22 or 22A/CAR 21.13A or 21.29/21.29A or,
- (b) for older aircraft where the certification basis is still against CAO Part 101 series

TABLE 1

Helicopter Model	Type Acceptance Certificate	FAA Type Certificate Data Sheet
Rotorcraft Development Corporation (Garlick Helicopter, Inc. Garlick Helicopter Corporation) UH-1B, UH-1H	R24	H13WE
Rotorcraft Development Corporation (Garlick Helicopter Corporation, Firefly Aviation, Western International) TH-1F	R33	H12NM
Tamarack Helicopters Inc TH-1F	R28	H7NE
Arrow Falcon Exporters Inc (Utah State University) UH-1H	R32	R00007DE
Overseas Aircraft Support (Scott Paper Company, Williams Helicopter Corporation, Offshores Construction) UH-1H, UH-1E, UH-1H, UH-1L	R39	H7SO
Richards Heavylift Helo, Inc (Wilco Aviation, Southern Aero Corporation, UNC Helicopter, Inc. US Helicopter, Inc. S.M.&T. Aircraft) UH-1B	R14	H3SO
Richards Heavylift Helo, Inc (Wilco Aviation, Southern Aero Corporation, UNC Helicopter, Inc. US Helicopter, Inc. S.M.&T. Aircraft) UH-1H	R51	H3SO



AIRWORTHINESS BULLETIN

Military Surplus Helicopters - Continuing
Airworthiness

AWB 02-040 **Issue :** 1
Date : 5 July 2011

Helicopter Model	Type Acceptance Certificate	FAA Type Certificate Data Sheet
Siam Hiller Holdings, Inc (Hiller Aircraft Corporation, Fairchild Industries, Inc. Heli-Parts, Inc., Hiller Aviation, Rogerson Aircraft Corporation, Hiller Helicopters, Rogerson Hiller Corporation) UH-12E	R20 & CAO 101.24 Feb 74	4H11
Siam Hiller Holdings, Inc (Hiller Aircraft Corporation, Fairchild Industries, Inc. Heli-Parts, Inc., Hiller Aviation, Rogerson Aircraft Corporation, Hiller Helicopters, Rogerson Hiller Corporation) UH-12C	CAO 101.24 Feb 74	6H2