



No.	CF-2004-21R3	1/2
Issue Date	23 April 2008	

AIRWORTHINESS DIRECTIVE

The following airworthiness directive (AD) may be applicable to an aircraft which our records indicate is registered in your name. ADs are issued pursuant to **Canadian Aviation Regulation (CAR) 593**. Pursuant to **CAR 605.84** and the further details of **CAR Standard 625, Appendix H**, the continuing airworthiness of a Canadian registered aircraft is contingent upon compliance with all applicable ADs. Failure to comply with the requirements of an AD may invalidate the flight authorization of the aircraft. Alternative means of compliance shall be applied for in accordance with **CAR 605.84** and the above-referenced **Standard**.

This AD has been issued by the Continuing Airworthiness Division (AARDG), Aircraft Certification Branch, Transport Canada, Ottawa, telephone 613 952-4357.

- Number:** CF-2004-21R3
- Subject:** Tail Rotor Blade Cracked
- Effective:** 1 June 2008
- Revision:** Supersedes Airworthiness Directive (AD) CF-2004-21R2 issued 14 September 2006.
- Applicability:** Bell Helicopter Textron Canada (BHTC) Helicopters, Models 222, 222B, 222U, 230, and 430.
- Compliance:** As indicated unless already accomplished.

Background: On three (3) occasions, the tail rotor blades were discovered cracked during scheduled inspection. Two cracks originated from the outboard bearing bore underneath the flanged sleeves. The third crack started from the inboard bearing bore. Corrosion and machining burrs are suspected as the crack originators. As an interim safety action, a visual inspection at intervals of three (3) flight hours and repetitive inspection at each fifty (50) flight hours have been introduced by BHTC.

Revision 1 includes a reference to Revision A of Alert Service Bulletin (ASB) 430 04 31, and also some editorial changes for simplicity and clarity of the document.

Revision 2 introduces terminating action to eliminate recurring inspections.

Revision 3 extends terminating action until 31 December 2008.

Corrective Actions: **Part 1**

Within the next three (3) hours air time, and at intervals not to exceed three (3) hours air time thereafter inspect the tail rotor blades as per Part I of applicable ASB listed below, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Part 2

Within the next fifty (50) hours air time and within every fifty (50) hours air time thereafter, inspect the tail rotor blades as per Part II of the applicable Alert Service Bulletin listed below, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Part 3 - Terminating Action.

Rework the affected tail rotor blades no later than 31 December 2008, to eliminate the recurring inspection requirements of Parts 1 and 2 above, as per Part III of the applicable Alert Service Bulletin listed below, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Pursuant to **CAR 202.51** the registered owner of a Canadian aircraft shall, within seven days, notify the Minister in writing of any change of his or her name or address.

To request a change of address, contact the **Civil Aviation Communications Centre (AACR)** at Place de Ville, Ottawa, Ontario K1A 0N8, or 1-800-305-2059, or www.tc.gc.ca/civilaviation/communications/centre/address.asp



Model	Alert Service Bulletin
222 and 222B	222-04-100, Rev. A
222U	222U-04-71, Rev. A
230	230-04-31, Rev. A
430	430-04-31, Rev. B

Authorization: For Minister of Transport, Infrastructure and Communities

Derek Ferguson
Acting Chief, Continuing Airworthiness

Contact: Mr. Bogdan Gajewski, Continuing Airworthiness, Ottawa, telephone 613-952-4450, facsimile 613-996-9178 or e-mail: gajewsb@tc.gc.ca or any Transport Canada Centre.