



February 26, 2009

**TO: All Owners/Operators of Bell 407 Helicopters**

**SUBJECT: REVISION "B" TO TECHNICAL BULLETIN 407-04-60:  
(TRANSMISSION ASSEMBLY AND TAIL ROTOR GEARBOX  
OVERHAUL INTERVAL, INCREASE OF)**

Revision "B" to this bulletin:

- Introduces a PART II to the COMPLIANCE section,
- Increases the overhaul interval of tail rotor gearboxes listed in the COMPONENTS AFFECTED section to 5000 hours of operation,
- and makes minor grammatical changes to align the usage of terms.

TECHNICAL BULLETIN  
**Bell** Helicopter  
A Textron Company

No. 407-04 60  
Date Nov. 29, 2004  
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DATE Feb, 26, 2009
REV B

**MODEL AFFECTED:** 407

**SUBJECT:** TRANSMISSION ASSEMBLY AND TAIL ROTOR GEARBOX OVERHAUL INTERVAL, INCREASE OF. **B**

**HELICOPTERS AFFECTED:** Model 407 helicopters

**COMPONENT AFFECTED:** PART I

Transmission 407-040-006-107 modified per TB 407-03-41 and transmission 407-040-006-111 and subsequent.

**PART II**

Tail rotor gearbox 406-040-400-117 and /-117FM that have been modified per TB 407-00-21 and TB 407-01-31 and tail rotor gearbox 406-040-400-119 and subsequent.

**COMPLIANCE:** PART I

Immediately upon receipt of this bulletin, the overhaul interval of the transmissions described in the COMPONENT AFFECTED section of this bulletin is increased to 4500 hours of operation. **B**

**PART II**

Immediately upon receipt of this bulletin, the overhaul interval of the tail rotor gearboxes described in the COMPONENT AFFECTED section of this bulletin is increased to 5000 hours of operation. **B**

**DESCRIPTION:**

Bell Helicopter has conducted technical evaluations of transmissions and tail rotor gearboxes operated in the field. In light of the favorable results observed in the course of these evaluations, an increase to the overhaul inspection interval is justified. There is no change to the interim inspection schedule that is currently set at 60 months.

PART I of this technical bulletin provides overhaul instructions applicable to eligible transmissions.

PART II of this technical bulletin provides overhaul instructions applicable to eligible tail rotor gearboxes.

This increase does not apply to transmissions and tail rotor gearboxes that have been subjected to repairs, reworks, or modifications that are not Bell Helicopter approved.

**APPROVAL:**

The engineering design aspects of this bulletin are Transport Canada Civil Aviation approved.

**MANPOWER:**

No additional manpower is required when accomplishing this Bulletin during interim inspection.

**MATERIALS:**

Not required

**SPECIAL TOOLS:**

None required

**WEIGHT AND BALANCE:**

Not affected

**ELECTRICAL LOAD DATA:**

Not affected

**REFERENCES:**

BHT-407-MM, Rev. 25, 29 December 2008.

Chapter 5-00-00, Inspections and component overhaul schedule

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BHT-407-CR&O, Rev. 3, 28 April 2008.

Chapter 63-20-00, Transmission assembly

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Chapter 65-00-00, Tail rotor drive system

**PUBLICATIONS AFFECTED:**

BHT-407-MM, Rev. 125, 29 December 2008.

Chapter 5-00-00, Inspections and component overhaul schedule

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**ACCOMPLISHMENT INSTRUCTIONS:**

**PART I – Transmission assembly as listed in the COMPONENT AFFECTED section of this bulletin**

1. Upon reaching 4500 hours time since new or overhaul, remove transmission from the aircraft (BHT-407-MM, Chapter 63).
2. Perform an overhaul to the transmission in accordance with the BHT-407-CR&O, Chapter 63-20-00.
3. Make an entry in the Historical Records, stating this Bulletin has been completed.

**PART II – Tail rotor gearbox as listed in the COMPONENT AFFECTED section of this bulletin**

1. Upon reaching 5000 hours time since new or overhaul, remove tail rotor gearbox from the aircraft (BHT-407-MM, Chapter 65-00-00).

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2. Perform an overhaul to the tail rotor gearbox in accordance with the BHT-407-CR&O, Chapter 65-00-00.
3. Make an entry in the Historical Records, stating this Bulletin has been completed.