SCHWEIZER 269 SERIES

SCHWEIZER SERVICE BULLETIN

MANDATORY MANDATORY MANDATORY

SUBJECT: INSPECTION OF MAIN TRANSMISSION PINION SPLINES; NEW TORQUE CHECK REQUIREMENT FOR AFT PINION NUT

MODELS AFFECTED: ALL 269C-1 Helicopters with more than 100 hours time in service at date of this Service Bulletin

TIME OF COMPLIANCE:

- PART I
  - ¤ Within 25 hours of operation from receipt of this Service Bulletin
- PART II
  - ¤ As required by PART I
- PART III
  - ¤ At each 100 hour inspection in accordance with the HMI Revision Dated 20 Mar 1998

REFERENCES:

- 269C-1 Handbook of Maintenance Instructions (HMI) (Issued 14 Jul 1995, revised 20 Nov 1997)
- 269C-1 HMI Appendix B (Issued 14 Jul 1995, revised 20 Mar 1998)
- 269C-1 HMI Appendix C, Part I (Issued 14 Jul 1995, revised 12 Feb 1997)

PREFACE:

- Requirements for periodic torque checks of the aft pinion nut have inadvertently been omitted from the 269C-1 HMI Appendix B. This inspection is incorporated into the Appendix B inspection guide with the attached revision to the HMI. A one-time inspection for condition of the spline areas of the pinion and tail rotor drive adapter is required.
- Failure to comply with this Service Bulletin may lead to loss of control of the helicopter and subsequent serious injury, death and/or property damage.

PROCEDURE:

PART I

a. Remove tail rotor transmission and drive shaft.

b. Check to verify that aft pinion nut does not rotate with 750 in-lbs. of torque applied.

   (1) If torque required is **less** than 750 in-lbs., perform PART II immediately.

   (2) If torque required is 750 in-lbs. **or more,** perform Part II at next 100-hour inspection.

c. Record compliance with Part I of this Service Bulletin in the aircraft records.

PART II

a. Remove tail rotor transmission and drive shaft.

b. Remove the aft pinion nut and splined drive adapter.

c. Inspect the exposed area of the pinion for excessive wear. Inspect the journal area that supports the tail rotor drive shaft splined drive adapter for excessive wear and fretting corrosion. Measure the pinion splines in accordance with HMI Appendix C, Part I, Table 1-4. Inspect the threads with 10X glass for cracks, excessive fretting corrosion and spalling.

d. Inspect splined drive adapter for excessive wear on inner diameter and inner splined area. Measure internal splines in accordance with HMI Section 10, Figure 10-14.

e. Inspect aft pinion nut for excessive wear of threads and on end face and shoulder that contact the splined adapter.

f. Reassemble using new or serviceable components as determined by inspection results.

g. Torque aft pinion nut to 750 to 1000 in.-lbs. in accordance with HMI Section 10.

h. Record compliance with Part II of this Service Bulletin in the aircraft records.

PART III

a. Perform a torque check of the aft pinion nut at each 100-hour inspection as detailed in the attached revision to the HMI Appendix B.

WEIGHT AND BALANCE

Weight and balance not affected.