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AIRWORTHINESS

MAINTENANCE

CYCLE RECORDS: ROLLS ROYCE 250 SERIES ENGINE MODULES

This AIC is issued as a reminder to all operators of rotorcraft fitted with Rolls Royce 250 engine series. The accuracy of cycle records for purposes of adhering to scheduled maintenance requirements cannot be over-emphasized. It has come to the CAA's attention that some operators/owners do not record modular cycles as well as the installation/removal records onto the appropriate cards supplied by Rolls Royce.

Chapter 05-10-00 Airworthiness Limitations of the Rolls Royce Maintenance Manual for these engines states that "The operator alone must maintain records of both hours and cycles. Both time and accumulated cycles of applicable components must be recorded in part I service record and part VI cycle record pages respectively for the compressor assembly and turbine assembly....Failure to record hour and cycle data of applicable parts in the logbook will result in those parts being replaced at the operator's expense when engines or components are returned for overhaul or repair"

Regulation 43.02.12, of the Civil Aviation Regulation, 1997 requires that "Any person who carries out maintenance specified in the Airworthiness Limitations section of a manufacturer's maintenance manual, or any instructions for safe operation and continued airworthiness, shall carry out the maintenance in accordance with that section.

Recording turbine wheel cycles accurately is extremely important as this component is subjected to very high thermal stresses during operation. This component requires mandatory maintenance actions at a pre-determined number of cycles and failure to comply with this requirement may result in its failure thereby compromising safety.

Owners/operators and maintenance personnel are reminded that they must record cycles of each engine module accurately. This will assist maintenance personnel to comply with instructions contained in the applicable Rolls Royce maintenance manual Chapter 05-10-00, as well as Regulation 43.02.12 & 43.02.13(2)(c) of the said Regulation.

COMMISSIONER FOR CIVIL AVIATION