Aviation Safety Investigation Report 198500137

BELL 47-G5

29 MAY 1985

Readers are advised that the Australian Transport Safety Bureau investigates for the sole purpose of enhancing transport safety. Consequently, Bureau reports are confined to matters of safety significance and may be misleading if used for any other purposes.

Investigations commenced on or before 30 June 2003, including the publication of reports as a result of those investigations, are authorised by the CEO of the Bureau in accordance with Part 2A of the Air Navigation Act 1920.

Investigations commenced after 1 July 2003, including the publication of reports as a result of those investigations, are authorised by the CEO of the Bureau in accordance with the Transport Safety Investigation Act 2003 (TSI Act). Reports released under the TSI Act are not admissible as evidence in any civil or criminal proceedings.

NOTE: All air safety occurrences reported to the ATSB are categorised and recorded. For a detailed explanation on Category definitions please refer to the ATSB website at <u>www.atsb.gov.au</u>.

Occurrence Number: Location: Date: Highest Injury Level: Injuries:		Ivanhoe Station WA 29 MAY 1985			Occurrence Type: Accident Time: 900	
0			Fatal	Serious	Minor	None
		Crew	1	1	0	0
		Ground	0	0	0	-
		Passenger	0	0	0	0
		Total	1	1	0	0
		17.05				
Aircraft Details:						
Registration:	VH-SJY					
Serial Number:						
Operation Type:	Aerial Work					
Damage Level:	Substantial					
Departure Point:	Ivanhoe Station WA					
Departure Time:						
Destination:	Ivanhoe Station WA					

Approved for Release: 7th January, 1986

Circumstances:

The helicopter was engaged in cattle mustering on Ivanhoe Station. The pilot in command was training the other pilot in aerial mustering techniques. While the helicopter was being flown at about 50 feet agl, one main rotor blade grip failed. The associated main rotor blade separated from the helicopter and the resulting imbalance caused the other main rotor blade and transmission to be torn from the helicopter. The aircraft then fell to the ground, landing on its right side. The main rotor blade grip failed due to a combination of fatigue and overload forces. Examination of the aircraft records revealed that because of a error in the recording of component hours, the 5000 hour service life of the grip had been exceeded by 687 hours. During the investigation inspections of the blade grips inspected. As a result, the manufacturer of the aircraft has recommended a reduction in the service life of the component.