Aviation Safety Investigation Report 199602993

Hughes Helicopters Hughes 500

19 September 1996

Aviation Safety Investigation Report 199602993

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 Executive Director 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 Executive Director 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 www.atsb.gov.au.

The Bureau did not conduct an on scene investigation of this occurrence. The information presented below was obtained from information supplied to the Bureau.

Occurrence Number: 199602993 Occurrence Type: Accident

Location: 35km NE Tamworth, Aerodrome

State: NSW Inv Category: 4

Date: Thursday 19 September 1996

Time: 1100 hours **Time Zone** EST

Highest Injury Level: Serious

Injuries:

	Fatal	Serious	Minor	None	Total
Crew	0	1	0	0	1
Ground	0	0	0	0	0
Passenger	0	1	0	0	1
Total	0	2	0	0	2

Aircraft Manufacturer: Hughes Helicopters

Aircraft Model: 369D

Aircraft Registration: VH-PLL Serial Number: 970192D

Type of Operation: Miscellaneous Other

Damage to Aircraft: Substantial

Departure Point: Roadside South of Uralla NSW

Departure Time:

Destination: 15 Nm NE of Tamworth NSW

Crew Details:

	Hours on				
Role	Class of Licence	Type Hou	ırs Total		
Pilot-In-Command	ATPL	600.0	7350		

Approved for Release: Tuesday, January 21, 1997

The helicopter was engaged in the inspection of 330KV power transmission lines.

The pilot reported that the helicopter was being hovered at a work station bonded to a conductor, whilst a linesman measured a mid span joint. The helicopter was kept at an angle of 30 degrees to the cable, partly due to the gusty wind, and also due to the rising gradient of the power lines to the rear. However, the tail of the helicopter suddenly yawed towards the conductor. Although the pilot applied full left pedal, he was unable to stop or even slow the rate of yaw before the tail rotor contacted the conductor. The pilot reduced power immediately, descending the helicopter forward and right in an effort to touch down before losing control.

A metallic screeching noise was heard, which was assumed to be caused by the tail rotor gearbox separating. At some point in the turn the nose dropped and the helicopter began to roll left. Collision with part of a tree prior to ground impact was unavoidable. The pilot subsequently shut the engine down with the fuel cutoff lever, as his left arm was injured during the impact sequence. The ELT did not activate.