Aviation Safety Investigation Report 198602339

Robinson R22 A

16 July 1986

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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.

Occurrence Number: 198602339 Occurrence Type: Accident

Location: Camden NSW

Date: 16 July 1986 **Time:** 1310 approx

Highest Injury Level: Nil

Injuries:

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

Aircraft Details: Robinson R22 A

Registration: VH-UXV

Serial Number:

Aerial Work (Dual

Operation Type: Instruction)

Damage Level: Substantial
Departure Point: Camden NSW
Departure Time: 1310 approx
Destination: Camden NSW

Approved for Release: May 4th 1987

Circumstances:

An exercise in emergency procedures was being carried out in the circuit area. A number of landings were completed, with the instructor simulating a jammed tail rotor pedal. On the last landing, a jammed right pedal was being simulated. After a standard approach for the circumstances, the student flared at about 45 centimetres above the ground and at a speed of about 15 knots. As he then began to reduce power, the engine apparently suffered a substantial loss of power and the aircraft landed heavily. The left landing skid dug in, and the helicopter somersaulted before coming to rest on its right side. No fault or defect was subsequently found with the engine or its systems which might have explained the reported power loss. Atmospheric conditions at the time of the accident were conducive to the formation of carburettor icing, particularly during descents with reduced power. The pilots had not used carburettor heat during the approach, possibly because the carburettor air temperature gauge was indicating a temperature just above the caution range. This instrument was later found to be reading in error by 9 degrees. The pilots had not checked the reading of the gauge against the ambient temperature prior to engine start, and were therefore unaware of the malfunction. When the power loss occurred, the helicopter was in such a position that it had contacted the ground before the instructor could initiate any corrective action.