

**Aviation Safety Investigation Report
199001982**

CESSNA TU206-A

22 April 1990

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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: 199001982
Location: Bankstown NSW
Date: 22 April 1990
Highest Injury Level: Nil
Injuries:

Occurrence Type: Accident

Time: 1135

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

Aircraft Details: CESSNA TU206-A
Registration: VH-DGD
Serial Number: U2060522
Operation Type: Aerial Work
Damage Level: Substantial
Departure Point: Bankstown NSW
Departure Time: N/A
Destination: Bankstown NSW

Approved for Release: 23rd July 1990

Circumstances:

The aircraft had taken off from runway 29R when, at a height of about 80 feet, the engine suffered a substantial loss of power. A forced landing was carried out onto a cleared area, beyond the end of the runway. The nosegear collapsed as the pilot attempted to groundloop the aircraft to avoid fences. Investigation revealed a non standard fuel strainer drain had been fitted in the fuel supply system between the fuel tank and the engine driven pump. Stress corrosion cracking caused failure of the strainer drain adapter fitting and allowed fuel to leak from the engine fuel supply. The diminished fuel supply was insufficient for the engine to maintain power.

Significant Factors:

The following factors were considered relevant to the development of the accident

1. Unauthorised modification of the fuel strainer drain system.
2. Stress corrosion failure of the fuel strainer drain adapter fitting.
3. Insufficient fuel supply to the engine to maintain power.