



J10/2/7167

A00-025

**SOUTH AFRICAN CIVIL AVIATION AUTHORITY
ACCIDENT REPORT – EXECUTIVE SUMMARY**

Date of Accident	07/02/2000	Time of Accident	1430	
Aircraft Registration	ZS-IRJ	Type of Aircraft	Beech 65-A90	
Pilot-in-command Licence Type	Commercial		Licence Valid	Yes
Pilot-in-command Flying Experience	Total Flying Hours	2628	Total Hours on Type	339
Type of Operation	Military			
Last point of departure	Kimberley			
Next point of intended landing	AFB Waterkloof			

Location of the accident site with reference to easily defined geographical points (plus GPS readings if possible)

RWY 19 AFB Waterkloof

Meteorological Information	CAVOK				
Number of people on board	1+5	No. of people injured	None	No. of people killed	None
Synopsis					

The pilot with 5 passengers on board were on a military flight from Kimberley to AFB Waterkloof. During the flight on entering the JHB TMA, radar informed the pilot that the transponder were intermitted. The pilot stated that he then observed that both generators were off-line causing a complete electrical failure. The pilot lowered the gear with the emergency extension system, but during landing the main undercarriage collapsed.

The cause of the unusual complete electrical failure was due to a sheared starter-generator drive shaft on the right-hand engine and an undetermined failure of the generator on the left-hand engine.

Temporary repairs were carried out to the aircraft, the drive shaft on the right-hand starter-generator was replaced and the aircraft was flown with the left-hand generator inoperative to an AMO at Lanseria

Probable Cause

The complete electrical failure was due to a failed starter-generator shaft on the right-hand engine and a defective left-hand generator.