



Ref: 7451

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

Aircraft Registration	ZS-CKK	Date of Accident	19 January 2002	Time of Accident	0900Z
Type of Aircraft	PIPER PA-24		Type of Operation	Private	
Pilot-in-command Licence Type	Private	Age	34	Licence Valid	Yes
Pilot-in-command Flying Experience	Total Flying Hours	1348	Hours on Type	75.3	
Last point of departure	Cradock Aerodrome				
Next point of intended landing	Queenstown Aerodrome (FAQT)				
Location of the accident site with reference to easily defined geographical points (GPS readings if possible)					
Queenstown Aerodrome on Runway 30, S31°55'00' E026°53'00'					
Meteorological Information	CAVOK				
Number of people on board	1 + 1	No. of people injured	Nil	No. of people killed	Nil
Synopsis	<p>The pilot and passenger took off on a private flight from Cradock to Queenstown. Their flight was uneventful but on approach to Queenstown Aerodrome, they experienced an electrical system failure.</p> <p>The pilot lowered the landing gear by using the emergency landing gear extension system, but it did not reach the down and locked condition. Due to the electrical system failure the green landing gear down and lock indication light was not operational and the pilot could not determine if the landing gear was down and locked.</p> <p>When the aircraft landed the undercarriage collapsed.</p> <p>No injuries were sustained.</p>				
Probable Cause					
<p>The aircraft suffered a total electrical system failure due to a broken generator feed bolt that transfers electrical power from the generator to the system. The pilot used the emergency extension system to lower the undercarriage. It did not reach the down lock position during the extension, which caused the undercarriage to collapse during the landing.</p>					