

**Aviation Safety Investigation Report
199502983**

**Beech Aircraft Corp
King Air**

08 September 1995

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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.

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:	199502983	Occurrence Type:	Incident
Location:	220km NE Mount Isa, Aerodrome		
State:	QLD	Inv Category:	4
Date:	Friday 08 September 1995		
Time:	2004 hours	Time Zone	EST
Highest Injury Level:	None		

Aircraft Manufacturer:	Beech Aircraft Corp		
Aircraft Model:	C90		
Aircraft Registration:	VH-FDW	Serial Number:	LJ-1011
Type of Operation:	Non-commercial Aerial Ambulance		
Damage to Aircraft:	Nil		
Departure Point:	Mt Isa QLD		
Departure Time:	0915 EST		
Destination:	Normanton QLD		

Approved for Release: Monday, September 25, 1995

The warning light for the primary electrical inverter illuminated and then re-activated after the stand-by inverter was selected. The pilot decided to return to Mt Isa. A short time later all flight instrument "fail flags" indicated and sparks were observed near the top of the pilots instrument panel. The avionics master switch was selected off and the aircraft later landed safely.

Later examination found that a section of electrical wiring under the instrument panel had "shorted" and burnt. Both inverters were unserviceable and the 115 volt main fuse was blown. It was determined that the electrical fault was probably initiated by the electrical wiring chaffing and then shorting out.