ublication of this report is authori	and by the Secondary under	the grautation	as of Air Newi	action Reputet	iona 283 (1)				
LOCATION OF OCCURE							L		•
6 kilometres south-eas	t of Bunbury, We	stern Aus	stralia	Height e.m 70 f		Dete 13.1.7	'8 1105	hours	Zone WS
THE AIRCRAFT		·····		· • - · · · · · ·	·				
ke and Model		Registratio		1	of Airworthines				
Cessna 182M		+	-EHU	Van	d from 30.0	· · · · · · · · · · · · · · · · · · ·			
rtificate of Registration issued to	Operator				Degree of damage to aircreft Substantial				
					Other property demaged				
							Nil		
facts discovered	. <u> </u>								
	it in one cell of th	•							
-	t in the voltage re	•							•
The parking	g brake balance ca	able was	broken.						
THE FLIGHT									
. THE FLIGHT	Time of departure	Nent p	eint of intende	d lending	Purpose of flig	jhi .	Class of	Class of operation	
- · · •									
Bunbury		Bunbury			Pleasure		Charter		
THE CREW	·····								
Name	Status	Age	Class	oflicence	Hours on type	Total hav	<u>,, ,</u>	Degrée of in	jury
	Pilot	20	Com	mercial	5	506		Serious	
		Ì							
OTHER PERSONS (All p					. <u>L</u>				<u></u>
Neme	Status	Degree of			Nome		Status	Degree	of inju
	Passenger	Minor Minor					Passenger Ni Passenger Ni		
	Passenger								il
								L	
RELEVANT EVENTS									
The aircra the period leading up to during that period and he had the assistance of A note, purporting to b to the flight records m occasion while the airc effective in improving	for each flight he of another pilot m be prepared by maintained by the H craft engine was r the aircraft batte ents had been mad	remained started anipulati Bunbury running, ry state de by rep	in that c the engine ng the co , inst Aero Club to excite to a level presentati	ondition. e by hand ckpit cont ructing the o in respe the altern at which wes of the	swinging th rols while h at the aircr et of VH-EH ator by usin it would rel 1st Lynwoo	flew e propel ne himse aft be ha HU. An ng a car liably st od Scout	the aircra ler. On ea If swung th and started attempt was battery. art the eng Group for	aft twice ach occa ne prope , was a as made This wa This wa a series	e asion eller, ttach on o s not s of

The pilot swung the propeller and when the engine started he walked around the left hand wing strut and towards the open cabin door. Before he reached the door, however, the engine speed rose to a point at which the aircraft began to move forward. The cabin door blew shut and attempts by the pilot to open the door while running alongside the aircraft were unsuccessful. He then threw himself across the left hand tailplane and clung there as the aircraft ran forward. There is some evidence that he manipulated the elevator to the down position and also deflected the rudder.

6, RELEVANT EVENTS (CONT'D)

The aircraft left the aerodrome apron and moved towards the runway. Before reaching the runway it veered left and ran along on rough ground at the side of the strip. After passing the eastern threshold of the runway the aircraft traversed a ditch and the nosewheel was broken off. The aircraft then crossed a sealed road and entered another ditch where it came to an abrupt halt, having travelled about 300 metres.

The pilot was flung forward over the left mainplane and he struck the ground heavily just ahead of the aircraft. The unsecured passenger in the centre rear seat was thrown into the front section of the cabin, striking the windscreen but remaining within the aircraft. All four passengers left the aircraft without assistance.

Examination of the aircraft revealed that the handbrake lever was pulled out to the full extent of its travel and locked. The hand brake balance cable had failed because its load bearing capacity had been significantly reduced by fatigue cracking at a point where the cable passed over a small diameter pin. The effect of the failure of the balance cable would have been that the brakes, which were otherwise serviceable, either would not have been applied by operation of the hand brake lever, or, if already applied, would have released when the cable failed. It could not be established when failure of the balance cable had taken place.

A seat belt for the centre rear seat was fitted to the aircraft but was apparently out of sight under the seat when the passengers took their places.

OPINION AS TO CAUSE

The cause of the accident was that the pilot did not take appropriate steps to ensure that hand starting of the aircraft engine could be undertaken with safety.

	Approved for publication	Gounghes.	(G.V. Hughes)	Dore 25.3.1980
l	Decircular		Delegate of the Secretary	<u> </u>

DEFINITIONS

ACCIDENT - An occurrence associated with the operation of an aircraft which takes place between the time any person boards the aircraft with the intention of flight until such time as all those persons have disembarked and in which

(a) any person suffers death or serious injury as a result of being in or upon the aircraft or by direct contact with the aircraft or anything attached to the aircraft; or

Note. - Specifically excluded are: death from natural causes and fatal or serious injury to any person on board whether self-in-flicted or inflicted by another person, or to ground support personnel before or after flight, or fatal or serious injury which is not a direct result of the operation of the aircraft, or which concerns stowaways.

- (b) the aircraft suffers substantial damage or is destroyed; or
- (c) the aircraft is missing or is completely inaccessible.

FATAL INJURY - Any injury which results in death within 30 days.

SERIOUS INJURY - Any injury other than a fatal injury which

- (a) requires hospitalisation for more than 48 hours, commencing within seven days from the date the injury was received; or
- (b) results in a fracture of any bone (except simple fractures of fingers, toes or nose); or
- (c) involves lacerations which cause severe haemorrhages, nerve, muscle or tendon damage; or
- (d) involves injury to any internal organ; or
- (e) involves second or third degree burns, or any burns affecting more than five percent of the body surface.

MINOR INJURY – Any injury other than as defined under "Fatal Injury" or "Serious Injury".

DESTROYED - Consumed by fire, demolished or damaged beyond repair.

SUBSTANTIAL DAMAGE - Damage or structural failure which adversely affects the structural strength, performance or flight characteristics of the aircraft and which would normally require major repair or replacement of the affected component. The following types of damage are specifically excluded: engine failure; damage limited to an engine or its accessories, or to propeller blades; bent fairings or cowlings; small dents or puncture holes in the skin; damage to wing tips, antennas, tires, or brakes.

MINOR DAMAGE - Damage other than as defined under "Destroyed" or "Substantial Damage".