

Section/division Accident and Incident Investigations Division

Form Number: CA 12-57

LIMITED ACCIDENT INVESTIGATION REPORT

Reference		CA18/2/3/10009								
Number										
Classificatio	Ac	cident	Date		1 June	e 2 <mark>02</mark>	1	Time		0945Z
n										
Type of		Helicop	Part 12	8)						
Operation										
Location										
Place of	arm Mid		Place of Intended			Same Farm				
Departure		randfort District, Free State rovince			te	Landing				
Place of Accident	,									
GPS Co-ordinates	La	atitude	28°54'21	.60"S	Longi	tude	261	8'48.73"E	Elevation	4346 feet
Aircraft Information										
Registration		ZS-RVD								
Make / Model		Schweizer 269C (Serial No. S1849)								
Damage to Aircraft		None			Total Aircraft Hours		aft	2 319.4		
Pilot-in-command										
Licence Valid		Yes		Gender			Male		Age 33	
Licence Type		Commercial Pilot						•		
Total Hours on Type	1	1 943.9			Total Flying Hours			5 098.0		
People On-board	1 +	- 1 Inj	uries	1	Fatalit	ties	0	Other (On Groun	nd)	0
What Happen	ed							,		
On Tuesday morning, 1 June 2021, the pilot on-board a Schweizer 269C helicopter with										
registration ZS-RVD took off from New Tempe Aerodrome (FATP), just outside										

Bloemfontein, and landed on the game farm Middelwater in the Brandfort District.

After the two doors were removed from the helicopter the pilot gave the passenger (farm manager) a briefing on the operation they were about to conduct, which was darting several buffalos with medication. The pilot stated that he ensured that the passenger was strapped in on the right seat by making use of the helicopter-equipped lap strap. The passenger did not make use of the shoulder harnesses as he needed to position himself to dart the buffalos.

SRP date: 10 August 2021 Publication date: 12 August 2021 The pilot stated that due to the cold weather conditions, the passenger was dressed warmly and was wearing a bulky jacket.

The passenger had a dart gun with him and several capsules of medication for darting the animals. After they had located the herd of buffalos, the pilot manoeuvred the helicopter and the passenger darted the first animal. He then reloaded the dart gun and turned to the right to orientate himself to dart the second buffalo. It was during this period that the passenger's safety harness unlatched (became undone). Whilst the helicopter was in a right turn and before darting the second buffalo, the passenger fell out of the helicopter at a height of approximately 30 to 50 feet above ground level. The pilot stated that their forward speed was approximately 5 knots.

The pilot immediately landed at the scene and informed the relevant people about the accident. This was a commercial operation that was conducted under the Air Operating Certificate (AOC) number CAA/N974D, which was valid from 21 February 2021 with an expiry date of 28 February 2022.

An Emergency Medical Services (EMS) helicopter was dispatched from FATP to the scene of the accident. The passenger was stabilised at the scene and was transported to a hospital in Bloemfontein.

The passenger was seriously injured, and there was no damage to the helicopter.

The safety harness (lap strap) was inspected after the accident and was found to be intact and serviceable. The passenger did not make use of an additional safety harness (see Figure 1).

CA 12-57	Date: 18 June 2021	Page 2 of 4
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Figure 1: Additional safety harness.

Probable cause:

The passenger most probably inadvertently unlatched his safety harness while manoeuvring in the helicopter to dart the buffalos and, during the right turn, lost his seating and fell out of the helicopter.

Contributory factor

The passenger did not make use of an additional safety harness as a backup to the helicopter-equipped safety harness.

Safety Action/s

None.

CA 12-57	Date: 18 June 2021	Page 3 of 4
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Safety Message and/or Safety Recommendation/s

Safety Recommendation: It is recommended that the Director of Civil Aviation mandates the use of an additional safety harness for all operations in which a crew member or a person exposes any part of their body outside of the helicopter.

Safety Message: All operators involve in game work and associated helicopter operations should ensure that crew members and/or passengers on-board with a specific function (i.e., game darting, game culling, hoisting) be equipped with an alternate safety harness to avoid such persons from falling out of the helicopter and suffering a serious injury and/or loss of life. The adjustable safety harness should be attached to a hard point in the helicopter.

Purpose of the Investigation

In terms of Part 12.03.1 of the Civil Aviation Regulations (CAR) 2011, this report was compiled in the interest of the promotion of aviation safety and the reduction of the risk of aviation accidents or incidents and **not to apportion blame or liability**.

About this Report

Decisions regarding whether to investigate, and the scope of an investigation are based on many factors, including the level of safety benefit likely to be obtained from an investigation. For this occurrence, no investigation has been conducted, and the Accident and Incident Investigations Division (AIID) has relied on the information submitted by the affected person/s and organisation/s to compile this brief report. The report has been compiled using information supplied in the initial notification, as well as follow-up information to bring awareness of potential safety issues to the industry in respect of this occurrence, as well as possible safety action/s that the industry might want to consider in preventing a recurrence of a similar accident.

This report provides an opportunity to share safety message/s in the absence of an investigation.

All times given in this report are Co-ordinated Universal Time (UTC) and will be denoted by (Z). South African Standard Time is UTC plus 2 hours.

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This report is issued by:
Accident and Incident Investigations Division
South African Civil Aviation Authority
Republic of South Africa

CA 12-57	Date: 18 June 2021	Dogo 4 of 4
I CA 12-37	Date: To Julie 2021	Page 4 of 4