



Section/division Accident and Incident Investigations Division F

Form Number: CA 12-57

LIMITED ACCIDENT INVESTIGATION REPORT

Reference Numb	ber	CA18/2/3/	10056											
Classification	Acc	cident	Date		12 C	ctober	2021		Time		16	44Z		
Type of Operation	on	Remotely Piloted Aircraft (Part 101)												
Location		1												
Place of Departur	re	Seriti Mine Extension Mpumalar	,		ace of	Intenc	led Lan	ding		Ext	riti Mine ension, ovince		fontein malanga	
Place of Accident	t	Seriti Mine			ımalar	iga Pro	ovince			•				
GPS Co-ordinate	s	Longitude	S 25°57	S 25°57'50.7"		Latitude		E 029°32'03.2''		Elevation		5059 feet		
Aircraft Informat	tion						I					I		
Registration		ZT-WWE												
Model/Make		DJI Matric	e 200 v2 (Serial N	lumbe	r: M20	0-44)							
Damage to Aircraft		Missing			Total Aircraft Hours				1544					
Pilot-in-commar	d													
Licence Type		Remote Pilot Licence (RPL)				Gender			Male	e Age		;	36	
Licence Valid	Yes													
Total Hours on Type		1281.45	Total Flying Hours				1492.17							
People 0 On-board		Injuries		0	Fatalities			0		Other (on ground)			0	
What Happened				1			1			0	/			
On Tuesday, 12 drone with regis in Mpumalanga meteorological Regulations (CA According to the inspected and for	stration cond AR) 2 e pilo ounc	on ZT-WW ovince whe ditions (VM 2011 as an ot, he conc d to be in g	E was co en the ad MC) and nended. lucted a p pood cond	nductin ccident under pre-fligh ition for	ig a si occu the nt che	urvey rred. provis ck du light. f	flight a The fl ions c ring wh Fail saf	it Se ight of P nich fes v	vas art 10 batter vere ch	ne, K cond 1 of ies a heck	lipfonte ucted to the C nd equ ed and	in E> unde ivil ipme set c	ttension r visual Aviation ent were correctly	
for the drone to before he comn during flight whi	nenc	ed the surv	vey flight;	he rep	orted	that v	ideo bi	reak	•					
Take-off time of lost the drone's reconnect even Dispatch to trac	s line afte	e of sight or the return	approxim n home ti	ately 3 ransmis	.4 kile ssion	ometro (RTH)	es fror) was e	n ho enga	ome p aged.	oint. The p	The dr	one en co	did not intacted	

no way of tracking the drone. The drone had approximately 53% battery endurance, which translated

to 12 minutes flight time. There was an easterly wind of approximately 12 knots when contact with the drone was lost. The drone was not recovered.



Figure 1: A Matrice 200 Drone. (Source: DJI website)

Probable cause:

The pilot lost sight of the drone and it did not reconnect even after the return home transmission (RTH) was engaged. The cause was likely due to failure of data link.

Safety Action/s

None.

Safety Message and/or Safety Recommendation/s

None.

Purpose of the Investigation

In terms of Regulation 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

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This report is issued by:

Accident and Incident Investigations Division South African Civil Aviation Authority Republic of South Africa

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