

OA2021-04008 - Occurrence Details

Occurrence

Logged date	7/23/2021 1:21:08 PM			
Status	Approved for release			
Occurrence class	Accident			
Highest injury	Nil			
Occurrence date	6/29/2021			
Occurrence time	05:45:00			
Public summary	During aerial operations, the remotely piloted aircraft lost power and collided with terrain resulting in substantial damage.			
Property damage	Unknown			
Property damage details				
Worst accident outcome	Injury accident or minor damage			
Defence effectiveness	Not effective			
Risk rating	Medium (100)			
ERC justification				
TSI reportable	Immediately reportable			
Ground injuries	Fatal	Serious	Minor	Total
	0	0	0	0

Location

Location	near Wangaratta Aerodrome
Latitude	-36.41580000
Longitude	146.30700000
State	VIC
Country	Australia

Aircraft

Registration	FRV02-03
Type	Remotely Piloted Aircraft
Manufacturer	DJI
Model	Inspire 1
Engine type	Electric
Engine manufacturer	
Engine model	
Number of engines	4
Landing gear type	Skid

Fuel type	Other
Year of manufacture	
Amateur built	
Maximum takeoff weight (kg)	3
ELT Type	
ELT Fitted	
ELT Activated	

Airspace

Controlling agency	
ATS service type	
ATS position	
Airspace class	G
Airspace type	OCTA

Operation

Registration	FRV02-03
Operator	Fire Rescue Victoria
Flight number	
Related runway	
Phase of flight	Manoeuvring/airwork
PIC status	Employee
Pilot flying role	Pilot in command
Departure aerodrome	
Destination aerodrome	
Actual landing	
Aerodrome proximity	Off aerodrome < 10 km
Operation type	Aerial Work
Operation subtype	Survey / Photographic - (Aerial Work)
Activity group	General aviation / Recreational
Activity type	Aerial work
Activity subtype	Other surveying
Flight rules	VFR
Flight conditions	VMC
Altitude type	AGL (above ground level - ft)
Altitude	Exactly
Exact altitude	12

Other information	
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Occurrence category

Registration	FRV02-03
Level 1	Operational Operational Technical
Level 2	Aircraft control Terrain collisions Powerplant / Propulsion
Level 3	Loss of control Collision with terrain Other Powerplant / propulsion

Damage level and injuries

Registration	FRV02-03			
Injury level	Fatal	Serious	Minor	Total
Crew	0	0	0	0
Passengers	0	0	0	0
Aircraft damage level	Substantial			
Post impact fire				
Damage description	Broken Propellers, d			

Weather and environment

Cloud cover	Scattered (3-4 OKTAS)
Visibility (km)	10
Light conditions	Daylight
Wind direction	45
Average wind speed (kts)	4
Cloud base (ft)	2500
Visibility reduced by	None
Turbulence conditions	
Icing conditions	Nil
Precipitation type	Nil
Precipitation intensity	Nil
QNH	
Outside temperature	
Light and variable (windspeed)	No
Maximum wind speed (gust)	7
Dew point	
CAVOK	

Effective cloud ceiling	
Weather phenomena	

Safety factor

Level 1	Technical failure mechanism
Level 2	Electrical discontinuity
Level 3	

From: [Feedbackserver](#)
To: [SIIMS Notification Status](#)
Subject: Web Notification via Feedbackserver
Date: Thursday, 6 January 2022 12:06:25 PM

Respondent Information

Respondent DB ID Section 47F(1)
Respondent's language System language
IP address 0.0.0.0
Time to complete form 0 d 2 h 37 min. , 3 sec.
Submission recorded on 6/01/2022 12:06:01 PM

Survey Answers

Person reporting
Name * Section 47F(1)
Phone * Section 47F(1)
Email * Section 47F(1) @frv.vic.gov.au
Role: 16

Did the event involve?:

Bird/animal strike ☐
Mechanical/System problem ☐
Near collision between two aircraft ☐

Summary of event

Date * 3/01/2022
Local Time (24hr) * 1230
State * 8
Location * Defence Site Maribyrnong, Cordite Rd Maribyrnong
Damage to aircraft * 2
Most serious injury * 4

Please provide an overall summary of what happened.

* While performing thermal observation of the fireground, the aircraft had just given a low battery warning and the pilot was returning it to its takeoff point to land. The return altitude was more than sufficient to clear any obstacles and was being flown back in a straight line from where the air operation site. On the return the aircraft suddenly lost altitude and veered to the right causing it to collide with the top off a tree , disabling the aircraft and falling to the ground.
<div><div>You can come back to this screen to make changes. On the following screens we will ask for more information based on the type of event</div></div><div> </div> ☐

Aircraft

Registration: FRV02-01
Manufacturer: DJI
Model: Inspire 1
Flight no: Not answered
Owner: Fire Rescue Victoria
Operator: Fire Rescue Victoria

Operation

Departure: Defence Site Maribyrnong
Destination: Defence Site Maribyrnong
Landing: Not answered
Type of operation: 1
Phase of Flight: 9
Effect on flight: 5
Flight rules: 1
Flight conditions: 1

Airspace

Airspace class: 2
Airspace type: 2
Altitude: 50
Altitude type: 2

Pilot flying

Pilot in command ☒ [x]
NOT Pilot in command ☐ []

Persons on board

Total number of crew: 0
Total number of passengers: 0

Pilot in command

Name: Section 47F(1)
Contact phone
Date of birth:
Type of licence Section 47F(1)
ARN/Licence no.:
Nationality: Section 47F(1)

Pilot in command flying hours

Total flying hours: 91.5
Hours in last 90 days: 3.9
Total hours on type: 27.5
Hours on type in last 90 days: 3.5

Additional flight crew Please supply names and nationalities of other crew members:
Not answered

Injuries - crew

Fatal: 0
Serious: 0
Minor: 0
Not injured: 0

Injuries - passengers

Fatal: 0
Serious: 0
Minor: 0
Not injured: 0

Injuries - persons on the ground

Fatal: 0
Serious: 0
Minor: 0

Passenger Details

Please supply the nationality of any passengers with Serious or Fatal injuries:
Not answered

Aircraft damage

Description of damage:

Camera gimbal detached from aircraft, Aircraft body scratched and marked.

What may have contributed to the event?

The need to use an old aircraft and batteries as the new aircraft were restricted by DJI in the area of operations.

Contributing Factors: Please describe how these factors contributed to the event:

Old battery at lower power not being able to maintain normal aircraft operations

Suggested action: What further safety action has been, or could be, taken to prevent similar events?:

Ensure all aircraft are unlocked from the DJI no fly zones. So there is no need to use older aircraft. Increase the low battery level on the older aircraft

Environment

Light conditions: 2
Visibility in km: 10
Visibility reduced by: 8
Precipitation type: 6
Precipitation intensity: 4

Icing conditions: 1
Cloud cover: 2
Cloud base in ft: Not answered

Wind:
Wind direction: South
Wind speed: 13kts
Wind gusting: 19kts
Other significant weather: Not answered

OA2022-00048 - Occurrence Details

Occurrence

Logged date	1/6/2022 3:09:34 AM			
Status	Approved for release			
Occurrence class	Accident			
Highest injury	Nil			
Occurrence date	1/3/2022			
Occurrence time	01:30:00			
Public summary	During aerial survey operations, the RPAS lost power and collided with terrain resulting in substantial damage.			
Property damage	No			
Property damage details				
Worst accident outcome	Injury accident or minor damage			
Defence effectiveness	Not effective			
Risk rating	Medium (100)			
ERC justification				
TSI reportable	Routine reportable			
Ground injuries	Fatal	Serious	Minor	Total

Location

Location	2.7 NM 208 degrees from Essendon Aerodrome
Latitude	-37.76783156
Longitude	144.87530024
State	VIC
Country	Australia

Aircraft

Registration	W13DDA27060347
Type	Remotely Piloted Aircraft
Manufacturer	DJI
Model	Inspire 1
Engine type	Electric
Engine manufacturer	DJI
Engine model	3510H
Number of engines	4
Landing gear type	Skid

Fuel type	Not Applicable
Year of manufacture	
Amateur built	
Maximum takeoff weight (kg)	
ELT Type	
ELT Fitted	
ELT Activated	

Airspace

Controlling agency	
ATS service type	
ATS position	
Airspace class	
Airspace type	

Operation

Registration	W13DDA27060347
Operator	Fire Rescue Victoria
Flight number	
Related runway	
Phase of flight	Approach
PIC status	Employee
Pilot flying role	Pilot in command
Departure aerodrome	
Destination aerodrome	
Actual landing	
Aerodrome proximity	Off aerodrome < 10 km
Operation type	Part 101 Unmanned aircraft and rockets
Operation subtype	Subpart 101.F Remotely piloted aircraft
Activity group	General aviation / Recreational
Activity type	Aerial work
Activity subtype	Other surveying
Flight rules	VFR
Flight conditions	VMC
Altitude type	AGL (above ground level - ft)
Altitude	Exactly
Exact altitude	50

Other information	
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Occurrence category

Registration	W13DDA27060347
Level 1	Operational
Level 2	Terrain collisions
Level 3	Collision with terrain

Damage level and injuries

Registration	W13DDA27060347			
Injury level	Fatal	Serious	Minor	Total
Crew				
Passengers				
Aircraft damage level				
Post impact fire				
Damage description				

Weather and environment

Cloud cover	Few (1-2 OKTAS)
Visibility (km)	10
Light conditions	Daylight
Wind direction	180
Average wind speed (kts)	13
Cloud base (ft)	
Visibility reduced by	None
Turbulence conditions	
Icing conditions	Nil
Precipitation type	Nil
Precipitation intensity	Nil
QNH	
Outside temperature	
Light and variable (windspeed)	No
Maximum wind speed (gust)	19
Dew point	
CAVOK	

Effective cloud ceiling	
Weather phenomena	

Safety factor

Level 1	Technical failure mechanism
Level 2	Electrical discontinuity
Level 3	

From: atsb.noreply@govcms.gov.au on behalf of [ATSB](#)
To: [ATSBASIR](#)
Subject: Webform submission from: Occurrence Notification - Aviation
Date: Monday, 7 November 2022 4:57:47 PM

Submitted on Mon, 2022-11-07 16:57

Submitted by: Anonymous

Submitted values are:

Reporter's first name:

Section
47F(1)

Reporter's last name:

Section
47F(1)

Phone: (include country code if calling internationally)

Section 47F(1)

Email:

Section 47F(1)

@frv.vic.gov.au

Position/Role

Operating crew

Event details

07/11/2022 - 3:45pm

What state/territory did the event occur in?

Victoria

Location of event

Fire Rescue Victoria, Burnley Training Complex, 450 Burnley Street Richmond Vic 3121

Was there damage to the aircraft?

Yes

Number of crew on board

0

Number of passengers on board

0

Occurrence class

Accident

Was there any injury to a person?

No

Describe the event

RPAS Matrice 210 aircraft was been flown for a training exercise within the training yard of the Burnley Training complex. At an approximate height of 3.5 metres, the aircraft experienced a fly away event that cause the aircraft to roll to the left and impact the

building. Right roll was initiated to the controller to counteract the left roll. The aircraft continued to roll to the left until impacting the building with the Number 3 propellor, the Number 4 propellor also contacted the building immediately after the initial impact. This caused an immediate loss of lift to the left side of the aircraft which subsequently caused the aircraft to impact the ground.

During the impact, Number 3 boom was fractured at the connection to the airframe and both landing gear legs separated from the airframe at the point of attachment to the airframe.

The aircraft was being operated away from people in the rear yard. The rear yard is securely fenced and has swipe card access only to prevent public entry to the site. There was no potential to cause injury as the RPA was being operated in an alcove area that was enclosed on 3 sides.

Describe the aircraft **Aircraft registration/RPAS serial**
1DADG8X00100K9

Manufacturer
DJU

Model
Matrice 210 V2

Operation **Pilot flying role**
Pilot in command

Flight activity
Training exercise for the use and application of the various functions and payloads of the Matrice 210 V2.

Departure location
450 Burnley St Richmond Vic 3121

Destination location
450 Burnley St Richmond Vic 3121

Aerodrome proximity
Off aerodrome > 10 km

Type of operation
RPAS VLOS Part 101

Phase of flight
Manoeuvring

Flight rules
VFR

Flight condition
VMC

Altitude type
AGL (above ground level - ft)

Altitude

12

Event type

Technical failure

OA2022-04361 - Occurrence Details

Occurrence

Logged date	11/15/2022 8:44:37 PM			
Status	Approved for release			
Occurrence class	Accident			
Highest injury	Nil			
Occurrence date	11/7/2022			
Occurrence time	04:35:00			
Public summary	During training operations, the RPA did not respond to control inputs and collided with a building. The RPA sustained substantial damage.			
Property damage	Unknown			
Property damage details				
Worst accident outcome	Injury accident or minor damage			
Defence effectiveness	Limited			
Risk rating	Low (4)			
ERC justification				
TSI reportable	Routine reportable			
Ground injuries	Fatal	Serious	Minor	Total
				0

Location

Location	8 NM 143 degrees from Essendon Aerodrome
Latitude	-37.83461972
Longitude	145.00323395
State	VIC
Country	Australia

Aircraft

Registration	1DADG8X00100K9
Type	Remotely Piloted Aircraft
Manufacturer	DJI
Model	Matrice 210 V2
Engine type	Electric
Engine manufacturer	
Engine model	
Number of engines	4

Landing gear type	Skid
Fuel type	Not Applicable
Year of manufacture	
Amateur built	
Maximum takeoff weight (kg)	6
ELT Type	
ELT Fitted	No
ELT Activated	

Airspace

Controlling agency	
ATS service type	
ATS position	
Airspace class	G
Airspace type	OCTA

Operation

Registration	1DADG8X00100K9
Operator	Fire Rescue Victoria
Flight number	
Related runway	
Phase of flight	Manoeuvring/airwork
PIC status	Employee
Pilot flying role	Pilot in command
Departure aerodrome	
Destination aerodrome	
Actual landing	
Aerodrome proximity	Off aerodrome > 10 km
Operation type	Part 101 Unmanned aircraft and rockets
Operation subtype	Subpart 101.F Remotely piloted aircraft
Activity group	General aviation / Recreational
Activity type	Instructional flying
Activity subtype	Instructional flying - other
Flight rules	VFR
Flight conditions	VMC
Altitude type	AGL (above ground level - ft)
Altitude	Exactly

Exact altitude	12
Other information	

Occurrence category

Registration	1DADG8X00100K9
Level 1	Operational Technical Operational
Level 2	Aircraft control Systems Terrain collisions
Level 3	Loss of control Datalink - RPAS Collision with terrain

Damage level and injuries

Registration	1DADG8X00100K9			
Injury level	Fatal	Serious	Minor	Total
Crew				
Passengers				
Aircraft damage level	Substantial			
Post impact fire	No			
Damage description	Number 3 boom was fractured at the connection to the airframe and both landing gear legs separated from the airframe at the point of attachment to the airframe.			

Weather and environment

Cloud cover	
Visibility (km)	9999
Light conditions	Daylight
Wind direction	360
Average wind speed (kts)	3
Cloud base (ft)	0
Visibility reduced by	
Turbulence conditions	
Icing conditions	
Precipitation type	
Precipitation intensity	
QNH	1017
Outside temperature	13.0
Light and variable (windspeed)	No
Maximum wind speed (gust)	3

Dew point	12.00000000
CAVOK	Yes
Effective cloud ceiling	0
Weather phenomena	

Safety factor

Level 1	Technical failure mechanism
Level 2	Software / firmware anomaly
Level 3	