Test Plan

DJI Matrice FTS Containment Compliance Test Outline and Report

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Revision Log

Version	Revision Reason	Revised by	Date
V1.0	Official Release	Jadon.guo	2026.6.30

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1 Test Cases and Requirements

This test campaign is designed to comply with the Final Means of Compliance with the EASA MOC Light-UAS.2511-01 - Issue 01. The test cases are listed in Table 1. Any added or removed test cases should be indicated based on the actual test execution.

Table 1 Test Cases and Compliance Requirements

Case No.	Test Case Name	Sub-test Case (if any)	Number of Tests	Compliance Requirements
1	**Bench Test**	FTS Manual Trigger	10 times	●Full remote control screen recording ●No actual flight required; verify aircraft can stop propellers via FTS
2	**Close-range Flight Test**	FTS Manual Trigger	5 times	●Full remote control screen recording ●Actual flight required; distance 10~100m, altitude below 5m; verify FTS can stop propellers in flight
2.1	**Close-range Flight Test**	FTS Auto Trigger	5 times	●Full remote control screen recording ●Actual flight required; distance 100~200m, altitude below 5m; verify FTS can stop propellers after exiting geofence
3	**Long-distance Flight Test**	FTS Manual Trigger	10 times	●Full remote control screen recording ●2 times at max range (20km), max altitude 120m; 3

				times equally spaced (15km/10km/5km), max altitude 120m; ●2 times at max range (20km), min altitude 30m; 3 times equally spaced (15km/10km/5km), min altitude 30m;
4	**End-to-End Integration Test**	FTS Link Reliability	10000 times	●Stress test: restart + activate 10000 times ●Record activation success rate

2 Test Environment

2.1 Test Sample List

The list of test samples is shown in Table 2.

Table 2 Test Sample List

Product/Equipment Name	Quantity	Version
Matrice 400 Aircraft	1	v17.02.50.07
DJI RC Plus2	1	v01.64.08.18 (built-in APP: v17.2.5.23)
AP 100 Parachute	1	v00.01.29.01
Flight Battery	1	v16.00.00.64
4G dongle	2	

2.2 List of Test Equipment

The list of third-party test equipments used during testing is shown in Table 3.

Table 3 Test Equipment List

Test Equipment Name	Test Equipment Model	Test Equipment Purpose	Installation Method
Laptop	HP probook 440 14	Retrieve aircraft data	

2.3 Test Software List

The list of third-party test software is shown in Table 4.

Table 4 Test Software List

Test Software Name	Version	Software Purpose	Calibration Method	Company
DJI Assistant 2	v2.1.20	Supports parameter adjustment for industry series products		SZ DJI Technology Co., Ltd.
DJI Pilot	v17.2.5.23	Supports flight control and management for industry series UAVs		SZ DJI Technology Co., Ltd.

2.4 Test Scenario Description

The test scenario description is shown in Table 5.

Table 5 Test Scenario Description

Test Scenario Type	Indoor + Outdoor
Ground Area Type	☒Controlled Area - Sparse Population ☐Controlled Area - Dense Population ☐Uncontrolled - Sparse Population ☐Uncontrolled - Dense Population
Airspace Type	☒Isolated Airspace ☐Integrated Airspace

Max Test Flight Altitude	300m
Max Test Flight Distance	20000m
Test Weather Condition	Daytime

3 Verification Method

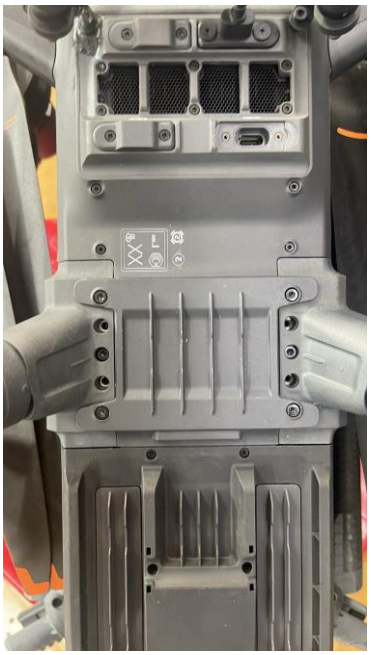
3.1 Pre-Test Preparation

The pre-test preparation is shown in Table 6.

Table 6 Pre-Test Preparation

Item	Description
1	Prepare fully assembled Matrice 400 in normal shipping condition
2	Prepare Matrice 400 flight battery and charge to 100%
3	Prepare DJI RC Plus2 remote controller and charge to 100%
4	Prepare AP 100 parachute, install on aircraft tail  
5	Prepare 4G dongle, ensure it has data SIM card with available data

	
6	Use DJI Assistant 2 to upgrade UAV and remote controller firmware to FTS-supporting version a. Aircraft: v17.02.50.07 b. Remote Controller: v01.64.08.18 c. APP (built-in remote controller package): v17.2.5.23
7	Use hex key to open 4G dongle module cover on aircraft belly, install 4G enhanced video transmission. 
8	Reinstall 4G dongle module cover on aircraft belly

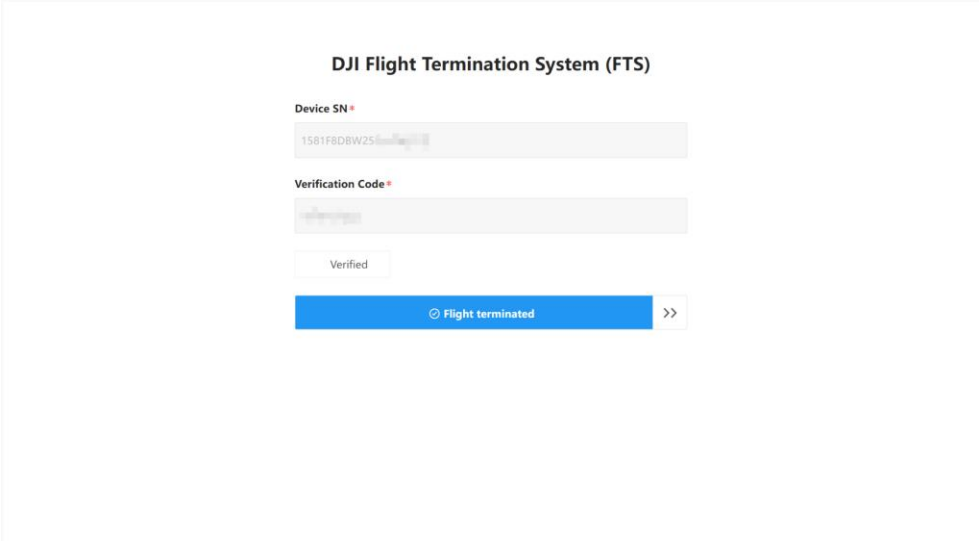
	
9	Verify aircraft power system normal; check propellers, motors, ESCs
10	Install 4G dongle on remote controller
11	Find open test site for UAV takeoff (L x W = 500m x 500m)

3.2 Test Execution Steps

3.2.1 Execution Steps :Bench Test

Step	Description
1	Bind Matrice 400 aircraft with DJI RC Plus2
2	Power on the aircraft, place in open area
3	Enter APP-Flight Screen-Settings-About, verify FTS is connected

	
4	Operate remote controller, inward/outward stick gesture to start propellers without takeoff
5	Access FTS server portal via DJI FlightHub, click 'Verify' 
6	After verification, trigger FTS propeller stop via slider

<table>
<tr><td></td><td>
</td></tr>
<tr><td>7</td><td>On Pilot home page, DJI FTS displays 'Flight Termination System Triggered'

</td></tr>
<tr><td colspan="2">Notes:

1、Keep safe distance of at least 10m from UAV.

2、Check all UAV propellers fully unfolded before takeoff.

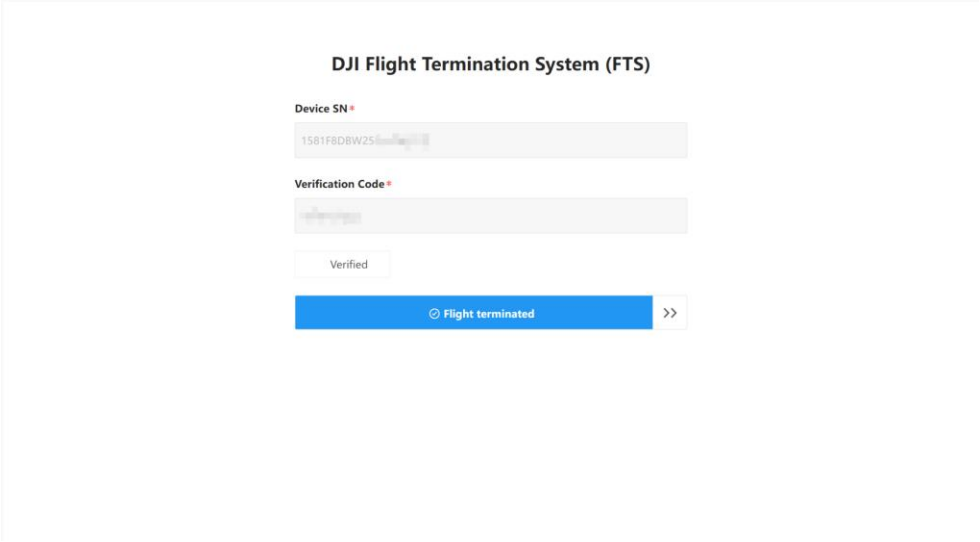
3、Do not fly toward nose of UAV during flight.

4、Stop propellers and disconnect UAV power promptly after landing.

5、Trigger FTS from a safe location.</td></tr>
</table>

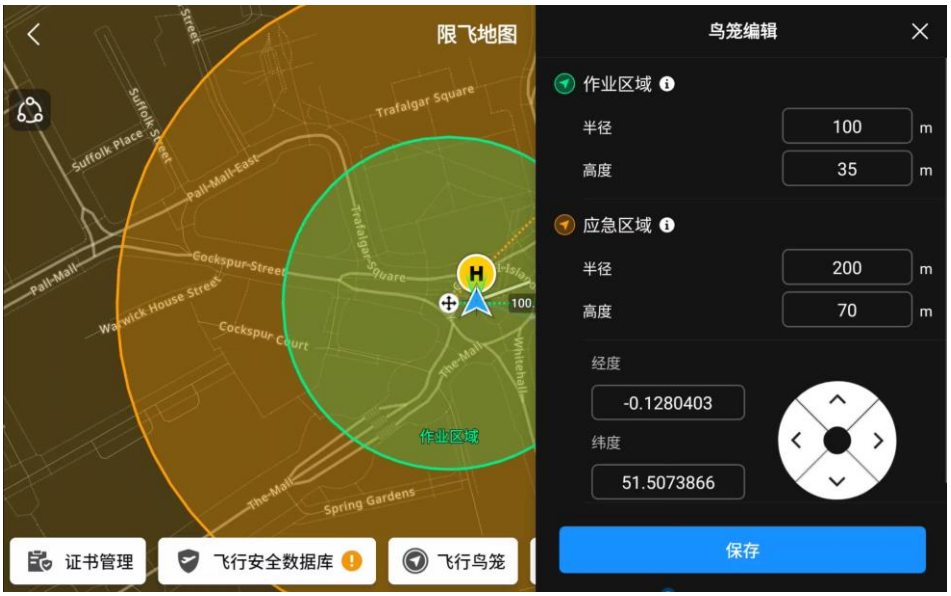
3.2.2 Execution Steps:Close-range Flight Test-Manual Trigger

Step	Description
1	Bind Matrice 400 aircraft with DJI RC Plus2
2	Power on the aircraft, place in open area
3	Enter APP-Flight Screen-Settings-About, verify FTS is connected 
4	Operate remote controller, start propellers, take off to open area 100m away, altitude 1m, foam pads placed below
5	Access FTS server portal via DJI FlightHub, click 'Verify' 
6	After verification, trigger FTS propeller stop via slider

	
7	On Pilot home page, DJI FTS displays 'Flight Termination System Triggered' 

3.2.3 Execution Steps :Close-range Flight Test-Auto Trigger

Step	Description
1	Bind Matrice 400 aircraft with DJI RC Plus2
2	Power on the aircraft, place in open area
3	Enter APP - No-Fly Zone Map, set geofence:

	
4	Operate remote controller, start propellers, take off to open area 100m away, altitude 1m, foam pads placed below
5	Fly out of operational area, auto-trigger FTS propeller stop 

3.2.4 Execution Steps :Long-distance Flight Test-Manual Trigger

Step	Description
1	Bind Matrice 400 aircraft with DJI RC Plus2
2	Power on the aircraft, place in open area
3	Power on DJI RC Plus2 remote controller, enter Pilot 2 app

4	Operate remote controller, start propellers, take off to open area 5~20km away, altitude 30/120m 
5	Upon reaching target distance, slide in app to deploy parachute 

3.2.5 Execution Steps :End-to-End Integration Test -

Step	Description
1	Bind Matrice 400 aircraft with DJI RC Plus2
2	Power on the aircraft, place in open area
3	Enter APP-Flight Screen-Settings-About, verify FTS is connected

	
4	Run test script. Script test steps: 1. Start UAV, access DJI FlightHub for FTS online status 2. If status normal, activate FTS 3. After activation, get FTS return status from DJI FlightHub 4. If status 'Propeller Stop Triggered', test PASSES 5. Restart aircraft, repeat cycle Stress test: restart + activate 10000 times, ensure 100% success rate
Notes: 1. Keep safe distance of at least 10m from UAV 2. Check all UAV propellers fully unfolded before takeoff 3. Do not fly toward nose of UAV during flight 4. Stop propellers and disconnect UAV power promptly after landing 5. Trigger FTS from a safe location	

4 Test Process and Results

4.1 Test Process Records

Basic information of this test is shown in Table 7. See Appendix A for test site photos.

Table 7 Test Process Information

Item	Description
Test Execution Time	December 11, 2025 ~ June 24, 2026
Test Location	Qiuchang St., Huiyang Dist., Huizhou, Guangdong
Test Count	30 times
Test Executor	Jindong Guo

4.2 Test Results

The results of each test item are shown in Table 8

Table 8 Test Results

Test Scenario	Test Sequence	Test Data	Test airp Conclusion
Bench Test	1st	https://fs-project.djicorp.com/apps/files	☒Pass
Bench Test	2nd	https://fs-project.djicorp.com/apps/files	☒Pass
Bench Test	3rd	https://fs-project.djicorp.com/apps/files	☒Pass
Bench Test	4th	https://fs-project.djicorp.com/apps/files	☒Pass
Bench Test	5th	https://fs-project.djicorp.com/apps/files	☒Pass
Bench Test	6th	https://fs-project.djicorp.com/apps/files	☒Pass
Bench Test	7th	https://fs-project.djicorp.com/apps/files	☒Pass
Bench Test	8th	https://fs-project.djicorp.com/apps/files	☒Pass
Bench Test	9th	https://fs-project.djicorp.com/apps/files	☒Pass
Bench Test	10th	https://fs-project.djicorp.com/apps/files	☒Pass
Close-range Flight Test - FTS	1st	https://fs-project.djicorp.com/apps/files	☒Pass
Close-range Flight Test - FTS	2nd	https://fs-project.djicorp.com/apps/files	☒Pass
Close-range Flight Test - FTS	3rd	https://fs-project.djicorp.com/apps/files	☒Pass
Close-range Flight Test - FTS	4th	https://fs-project.djicorp.com/apps/files	☒Pass
Close-range Flight Test - FTS	5th	https://fs-project.djicorp.com/apps/files	☒Pass

Close-range Flight Test - FTS	6th	https://fs-project.djicorp.com/apps/files	☒Pass
Close-range Flight Test - FTS	7th	https://fs-project.djicorp.com/apps/files	☒Pass
Close-range Flight Test - FTS	8th	https://fs-project.djicorp.com/apps/files	☒Pass
Close-range Flight Test - FTS	9th	https://fs-project.djicorp.com/apps/files	☒Pass
Close-range Flight Test - FTS	10th	https://fs-project.djicorp.com/apps/files	☒Pass
Long-distance Flight Test - Manual Trigger	1st	https://fs-project.djicorp.com/apps/files	☒Pass
Long-distance Flight Test - Manual Trigger	2nd	https://fs-project.djicorp.com/apps/files	☒Pass
Long-distance Flight Test - Manual Trigger	3rd	https://fs-project.djicorp.com/apps/files	☒Pass
Long-distance Flight Test - Manual Trigger	4th	https://fs-project.djicorp.com/apps/files	☒Pass
Long-distance Flight Test - Manual Trigger	5th	https://fs-project.djicorp.com/apps/files	☒Pass
Long-distance Flight Test - Manual Trigger	6th	https://fs-project.djicorp.com/apps/files	☒Pass
Long-distance Flight Test - Manual Trigger	7th	https://fs-project.djicorp.com/apps/files	☒Pass
Long-distance Flight Test - Manual Trigger	8th	https://fs-project.djicorp.com/apps/files	☒Pass
Long-distance Flight Test - Manual Trigger	9th	https://fs-project.djicorp.com/apps/files	☒Pass
Long-distance Flight Test - Manual Trigger	10th	https://fs-project.djicorp.com/apps/files	☒Pass
End-to-End Link Stress Test	10000 times	https://fs-project.djicorp.com/apps/files	☒Pass

4.3 Issues During Test

None.

Appendix A Test Site Photos

Test site photos are shown in the internal cloud drive below:

https://fs-project.djicorp.com/apps/files