



## Deliverable 2 Compliance Statement

Team Name: Melbourne Autonomous Systems

We declare that this report and the entry that it describes complies with the rules of the 2016 UAV Challenge, and that we enter with the intention of competing in the spirit of the challenge. Specifically we declare that our entry is compliant with the following topics and provide reference to within our Deliverable 2 document where our method of compliance is described:

Rules Reference	Topic	Compliance	Deliverable 2 Reference		
Mandatory / I	Essential		1		
Non-complian	ce in this section will result in a No-Go findi	ng unless there are significant and	d/or extenuating		
circumstances	. Please read the rules in detail. If using two	aircraft ensure both aircraft are	considered and		
Deliverable 2 references are provided for both aircraft if necessary.					
1.6	Maximum of two aircraft for the	Compliant	S3		
	mission				
3.1.1	Must not be a commercial off-the-	Retrieval aircraft Compliant	S3		
	shelf complete system	☐ Support aircraft Compliant	33		
3.1.1	Must be capable of autonomous flight	☐ Retrieval aircraft Compliant			
		☐ Support aircraft Compliant			
3.1.1	Must have a maximum gross weight of	Retrieval aircraft Compliant	S3		
	less than 100 kg (rotary) or 150kg	☐ Support aircraft Compliant			
	(fixed wing)				
3.1.1	Must have continuous telemetry radio	☐ Retrieval aircraft Compliant			
	communication with the UAV	☐ Support aircraft Compliant			
	Controller				
3.1.1	Must have an easily accessible E-Stop	☐ Retrieval aircraft Compliant			
	to render the aircraft deactivated	☐ Support aircraft Compliant			
3.1.1	Must have an external visual indication	Retrieval aircraft Compliant	S3		
	of state (armed, inert, disarmed)	☐ Support aircraft Compliant			
3.1.1	Must have an arming switch	☐ Retrieval aircraft Compliant			
3.1.3	Must implement automatic (on-board)	☐ Retrieval aircraft Compliant			
	detection of crossing a Geofence	☐ Support aircraft Compliant			
	boundary				
3.1.4	Must include a flight termination	☐ Retrieval aircraft Compliant			
	system meeting all conditions	☐ Support aircraft Compliant			
3.1.5 & 5.3.2	Flight termination method described	☐ Retrieval aircraft Compliant			
	and analysis provided of maximum	☐ Support aircraft Compliant			
	distance outside Geofence				
3.1.6	All criteria for flight termination must	☐ Retrieval aircraft Compliant			
	result in immediate activation of flight	☐ Support aircraft Compliant			
	termination				





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Rules Reference	Topic	Compliance	Deliverable 2 Reference
3.2.1	Flight in the Transit Corridor and	☐ Retrieval aircraft Compliant	The remode
3.2.1	Remote Landing Site must be	□ Support aircraft Compliant	
	autonomous		
3.2.2	Must have a ground control station	☐ Retrieval aircraft Compliant	
	that provides a graphical display	☐ Support aircraft Compliant	
3.2.2	Must provide an NMEA data feed from	☐ Retrieval aircraft Compliant	
	the ground station	☐ Support aircraft Compliant	
3.2.3	Communication equipment must	□ Compliant	
-	comply with ACMA regulations	·	
3.3.2 & 5.3.2	AMSL altitudes will be measured and	□ Compliant	
	reported as pressure altitudes	·	
3.3.3 & 5.3.2	Correct aeronautical units used	□ Compliant	
3.3.3	Description of how aircraft will be	☐ Retrieval aircraft Compliant	
	maintained within its airspeed	☐ Support aircraft Compliant	
	envelope		
3.4.5	Pyrotechnic mechanisms have safety	□ Compliant	
	mechanism implemented and safety	Not Applicable	
	manual provided		
5.2	Disclosure of sponsors and funding	□ Compliant	
	sources		
5.3.2	Statement of originality and accuracy		S1
	included		
5.3.2	Executive summary provided	□ Compliant	
5.3.2	Introduction and design approach	□ Compliant	
	provided		
5.3.2	Landing site analysis strategy provided	□ Compliant	
5.3.2	System Diagram provided	□ Compliant	
5.3.2	Flight termination system design, state	□ Compliant	
	machine diagrams and transitions		
	provided		
5.3.2	Geofence system design provided	□ Compliant	
5.3.2	Radio frequencies to be used and	□ Compliant	
	relevant licences provided		
5.3.2	Updated risk assessment provided	□ Compliant	
5.3.2	Assessment of the risks associated	□ Compliant	
	with autonomously taking off and		
	landing provided		
5.3.2	Risk Management provided	□ Compliant	
5.3.2	Details of the system response to loss	□ Compliant	





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Rules Reference	Topic	Compliance	Deliverable 2 Reference
	of data link provided		
5.3.2	Details of the system response to loss of GPS provided	□ Compliant	
5.3.2	Details of the system response to lock- up or failure of autopilot provided	□ Compliant	
5.3.2	Details of the system response to lock- up or failure of the GCS provided	□ Compliant	
5.3.2	Details of the system response to loss of engine power provided	□ Compliant	
5.3.2	Details of fuel and/or battery management provided	□ Compliant	
5.3.2	Details of the management of other risks provided	□ Compliant	
5.3.2	Flight tests results provided	□ Compliant	
5.3.2	Conclusions provided	□ Compliant	
5.3.2	Video provided showing the retrieval aircraft autonomously landing and taking off	□ Compliant	
5.3.2	Video provided showing the teams pre-flight set up and checks	□ Compliant	
Highly Desira	ble		
7.2	"Soft Geofence"	☐ Implemented☐ Not Implemented☐	
5.3.2	Deliverable 2: Max 23 pages.	<ul><li>□ Compliant</li><li>□ Non-Compliant</li></ul>	

Additional Information:

Date:

Signed by a team representative, on behalf of all team members:

Printed Name: Matthew De Bono