

# SRG 1303T: Flying Display Risk Assessment Template

Guidance on Flying Display Risk Management can be found at Appendix A of CAP 403: [www.caa.co.uk/CAP403](http://www.caa.co.uk/CAP403).

<b>Hazard description</b> = Any condition, event, or circumstance which could induce an accident.
<b>Risk description</b> = The potential consequence and location that could result from the hazard.
<b>L</b> = Likelihood of the Risk occurring; <b>S</b> = Severity of the Risk consequence; <b>D</b> = Risk Decision, a combination of the likelihood of a risk occurring in conjunction with the severity of the risk that could result, e.g. <b>Unacceptable</b> , <b>Review</b> or <b>Acceptable</b> as referenced in the chart below.
<b>Mitigation measures</b> - Risk control measures <b>additional to CAP 403 requirements</b> to lower the risk to as low as reasonably practical (ALARP).
<b>Remarks</b> - Any other information relevant to the flying display risk management process which has not been captured elsewhere. E.g. clarity or explanation to a risk assessment calculation or mitigation measure.

## Risk Tolerability Matrix

Risk Decision (D)  Unacceptable (U) Review (R) Acceptable (A)			Risk Severity (S)				
			Catastrophic (5)  Multiple deaths, usually with loss of aircraft	Hazardous (4)  Large reduction in safety margins leading to serious or fatal injury to a small number of people	Major (3)  Significant reduction in safety margins leading to serious incident or injury	Minor (2)  Minor injury	Negligible (1)  Any event which is considered to be less severe than minor
Risk Likelihood (L)	Frequent (5)  Likely to occur many times	Unacceptable	Unacceptable	Unacceptable	Review	Acceptable	
	Occasional (4)  Likely to occur sometimes	Unacceptable	Unacceptable	Review	Review	Acceptable	
	Remote (3)  Unlikely to occur but possible	Unacceptable	Review	Review	Acceptable	Acceptable	
	Improbable (2)  Very unlikely to occur	Unacceptable	Review	Review	Acceptable	Acceptable	
	Extremely improbable (1)  Almost inconceivable that the event will occur	Review	Acceptable	Acceptable	Acceptable	Acceptable	

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Flying Display Name:	Flying Display Date:
Names and qualifications of Risk Assessment Team:	Date Conducted:

Hazard Description	Risk Description (including location where appropriate)	Initial rating			Mitigation Measures (if applicable)	Final rating			Person responsible for mitigations & remarks (if applicable)
		L	S	D		L	S	D	
					<u>Preventative Measures</u> • <i>Insert measures here. (State Avoidance / Reduction / Segregation)</i> <u>Recovery Measures</u> •				<u>Responsible person</u> • <i>EO / FDD / ATC / etc.</i>  <u>Remarks</u> •
					<u>Preventative Measures</u> • <u>Recovery Measures</u> •				<u>Responsible person</u> •  <u>Remarks</u> •
					<u>Preventative Measures</u> • <u>Recovery Measures</u> •				<u>Responsible person</u> •  <u>Remarks</u> •
					<u>Preventative Measures</u> • <u>Recovery Measures</u> •				<u>Responsible person</u> •  <u>Remarks</u> •

**Add additional rows as required**

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**ALARP Statement:** I am content the risks described in this document have been robustly mitigated, such that further mitigations would be grossly disproportionate to the benefits of risk reduction that would be achieved. Using qualitative judgements each risk is ALARP.

**Tolerability statement:** Having established the risks are ALARP, I am content that each risk to the public and the participants is sufficiently well controlled as to be tolerable; i.e. the activity can be permitted to take place under the conditions set out in the risk assessment. Using qualitative judgements, each risk is tolerable.

<b>FDD Sign Off</b>	<b>Name:</b>	<b>Signature:</b>	<b>Date:</b>
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<b>Event Organiser countersignature (where applicable) *</b>	<b>Name:</b>	<b>Signature:</b>	<b>Date:</b>
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*\*Not required for single item Airborne FDD displays.*

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Hazard Description	Risk Description (including location where appropriate)	Initial rating			Mitigation Measures (if applicable)	Final rating			Person responsible for mitigations & remarks (if applicable)
		L	S	D		L	S	D	
Mid-air collision – display & non-display aircraft.	Danger to pilots & persons on the ground both inside and outside the display area.	3	5	U	<u>Preventative Measures</u> <ul style="list-style-type: none"> <li>Warning signage added to areas inside and outside display area. (Reduction)</li> <li>Marshals to be positioned at all identified access points and bystanders notified of the dangers of viewing the display from non-designated zones. (Segregation)</li> </ul> <u>Recovery Measures</u> <ul style="list-style-type: none"> <li>If a gathering of secondary spectators is identified and refuse to move despite the request of designated Marshals, then the display will be stopped. (Avoidance)</li> </ul>	1	5	R	<u>Responsible person</u> <ul style="list-style-type: none"> <li>EO (bullets 1 &amp; 2)</li> <li>FDD (bullet 3)</li> </ul> <u>Remarks</u> <ul style="list-style-type: none"> <li>Marshals are provided with a briefing pack and can escalate to team leads if required.</li> </ul>
Pilot disorientation	Disorientated pilot losing control inside or outside display area.	3	5	U	<u>Preventative Measures</u> <ul style="list-style-type: none"> <li>Pilots must provide the FDD with a copy of their intended display profile at least 3 days prior to the proposed display date (in order to exceed the stipulated CAP 403 minima). (Reduction)</li> <li>FDD to brief pilots on disorientation possibility if there is a reduced visibility/horizon. (Reduction)</li> <li>Radio transmissions are minimized during displays to avoid distraction. (Reduction)</li> </ul> <u>Recovery Measures</u> <ul style="list-style-type: none"> <li>Nil</li> </ul>	1	5	R	<u>Responsible person</u> <ul style="list-style-type: none"> <li>FDD (incl bullet 1, responsible for ensuring pilots have sent their profile early)</li> </ul> <u>Remarks</u> <ul style="list-style-type: none"> <li>Provision of the pilot's display profile enables an unrushed FCC review and consideration of disorientation given the display site.</li> </ul>

Hazard Description	Risk Description (including location where appropriate)	Initial rating			Mitigation Measures (if applicable)	Final rating			Person responsible for mitigations & remarks (if applicable)
		L	S	D		L	S	D	
UAV / Drones being used by unauthorized persons	Potential for collision with display aircraft and/or member of the public.	3	4	R	<u>Preventative Measures</u> <ul style="list-style-type: none"> <li>EO responsible for checking and briefing stall holders and adding signage to ensure no on-site sales. (Reduction)</li> <li>All security staff to watch for any members of the public bringing a UAV/Drone into the site. Anyone seen doing so is to be denied access to the site. (Reduction)</li> </ul> <u>Recovery Measures</u> <ul style="list-style-type: none"> <li>Should a UAV/ Drone be seen flying at the site, or close by the perimeter, all efforts are to be made to find the operator and get the UAV safely onto the ground. (Reduction)</li> <li>The flying display is to be stopped until the UAV/Drone is recovered. (Avoidance)</li> </ul>	1	3	A	<u>Responsible person</u> <ul style="list-style-type: none"> <li>EO (bullets 1 to 3)</li> <li>FDD (bullet 4)</li> </ul> <u>Remarks</u> <ul style="list-style-type: none"> <li>Stall holder and security staff briefing pack includes their responsibilities for drone prevention.</li> <li>Commentator has a script for use if a drone is seen.</li> <li>The local Police were asked to provide their drone detection and prevention equipment, but it's not available.</li> </ul>