

CAA Response to AAIB Recommendation 2016-044



On December 22nd, 2015, the AAIB made the following Safety Recommendation:

Safety Recommendation 2016-044 'It is recommended that the Civil Aviation Authority establish and publish target safety indicators for United Kingdom civil display flying'

On January 24th, 2017 the CAA published the following response to the AAIB's Recommendation:

The CAA will undertake a study to identify and publish meaningful safety indicators for civil display flying. The CAA will conclude this study and publish safety indicators by September 2017.

Since the recommendation was made, the CAA has:

- commissioned a study into Safety Performance Indicators (SPIs) for flying displays which was conducted by the aviation consultancy company, HELIOS;
- analysed the candidate SPIs produced by the study and prepared a consolidated list of SPIs applicable to flying displays; and
- incorporated applicable SPIs into SRG 1305, the Flying Display Director (FDD) Post-Display Feedback Report.

In addition, the CAA will incorporate the appropriate SPIs into an annual post-display season safety survey, which will be carried out at the end of each display season from 2018 onwards.

These SPIs, set out in Annex A, can be used to monitor, identify and analyse the causal and contributory factors for occurrences during civil flying displays and, if necessary, to review or introduce additional safety mitigations. They also assist in analysing the safety culture of the display environment.

SRG 1305, which will be published in March 2018, will assist the CAA's efforts to ensure that the display environment continues to be as safe as it can be. In addition, the CAA will incorporate the remaining SPIs into an annual safety survey which will be disseminated to all members of the display community at the end of each display season, starting in 2018.

Appendix A

Consolidated list of Safety Performance Indicators

Safety Performance Area	Focus of SPI	SPIs	Stakeholders that influence SPI outcome	Target number	Collection Method
Outcomes	Accidents	Number of accidents	All	0	FDD report
	Incidents	Number of incidents	All	0	FDD report and Safety Survey
	Undesirable events	Number of undesirable events other than accidents, serious incidents and incidents	All	0	FDD report and Safety Survey
Hazardous events	Runway excursion	Number of runway excursions	Pilot	0	FDD report and Safety Survey
	Runway incursion	Number of runway incursions	Pilot / Event organiser / FDD	0	FDD report and Safety Survey
	Airspace or RA(T) infringement	Number of third party aircraft entering display area or RA(T) during a flying display	Event organiser / FDD	0	FDD report
	Loss of control	Number of mechanical failure / issues identified	EO/FFD/Pilot	0	FDD report
Proactive controls	FDD briefing	Number of flying display briefings judged to be inadequate	FDD	0	Safety Survey
	Regulation and oversight	Number of occasions where rules and procedures cause confusion amongst stakeholders	CAA	0	Safety Survey
		Number of flying displays audited by the CAA	CAA	20%	Internal metric
	Perform display	Number of pilots that have been distracted whilst performing a display	Pilot	0	Safety Survey
Reactive controls	Warning calls	Number of warning calls	Pilot / FDD	Stat	FDD Report
		Number of STOP calls	Pilot / FDD	Stat	FDD Report
Culture	Safety culture	The extent to which civil flying display stakeholders consider safety as a value that guides their everyday work (i.e. on a scale from 1 = low to 5 = high)	Event organiser / FDD / FCC / Pilot	Stat (survey)	Safety Survey
		Number (%) of FDD Post-Display Feedback Reports Received	FDD	>90%	Via FDD
	Just culture	The extent to which civil flying display stakeholders report problems / issues encountered during a flying display (i.e. on a scale from 1 = low to 5 = high)	Event organiser / FDD / FCC / Pilot	Stat (Survey)	Safety Survey
		Number (%) of Post Display Reports Received	FDD	>90%	Via FDD

Safety Performance Area	Focus of SPI	SPIs	Stakeholders that influence SPI outcome	Target number	Collection Method
		Number (%) of Annual Safety Surveys ¹ completed and returned	Event organiser / FDD / FCC / Pilot	>90%	Safety Survey
	Stakeholder Engagement	CAA staff attendance at: Pre-and Post Season Display Symposia, FDD Training Course, DAE Seminar, EAC conference, ICAS conference, BADA committee meetings (measured by person)	CAA	75%	Safety Survey

¹ CAP 1089 - [SARG Code of Practice](#) issue 13 states: We will conduct regular surveys of the opinion of those we regulate.