

FDD Feedback 2018

Hosts

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FDD Workshop Aims

- *The aim of the **FDD workshop** is to facilitate lesson sharing as the FDD cadre, share ‘top tips’ and ‘gotchas’, discuss and generate feedback for the Regulators and discuss and generate feedback for the wider symposium audience, ie display pilots and event organisers.*

FDD ROE

- Free-flow discussion encouraged but some hooks will be provided to start us off.
- We'll take notes for presentation to the wider audience.
- Everybody has an equal voice, but one contributor at a time please.
- Aim for positive criticism – let's focus on accentuating the positive and fixing the negative.

FDD Feedback 2018

Regulatory Structure / Regs

Risk Assessments

Paperwork: CAA / MAA / AIDU

RAF PC / Units – Allocation Notice and PDA info

FCC – FDD interface

Warning Calls

Waivers

Display Areas

Seasons Highlights

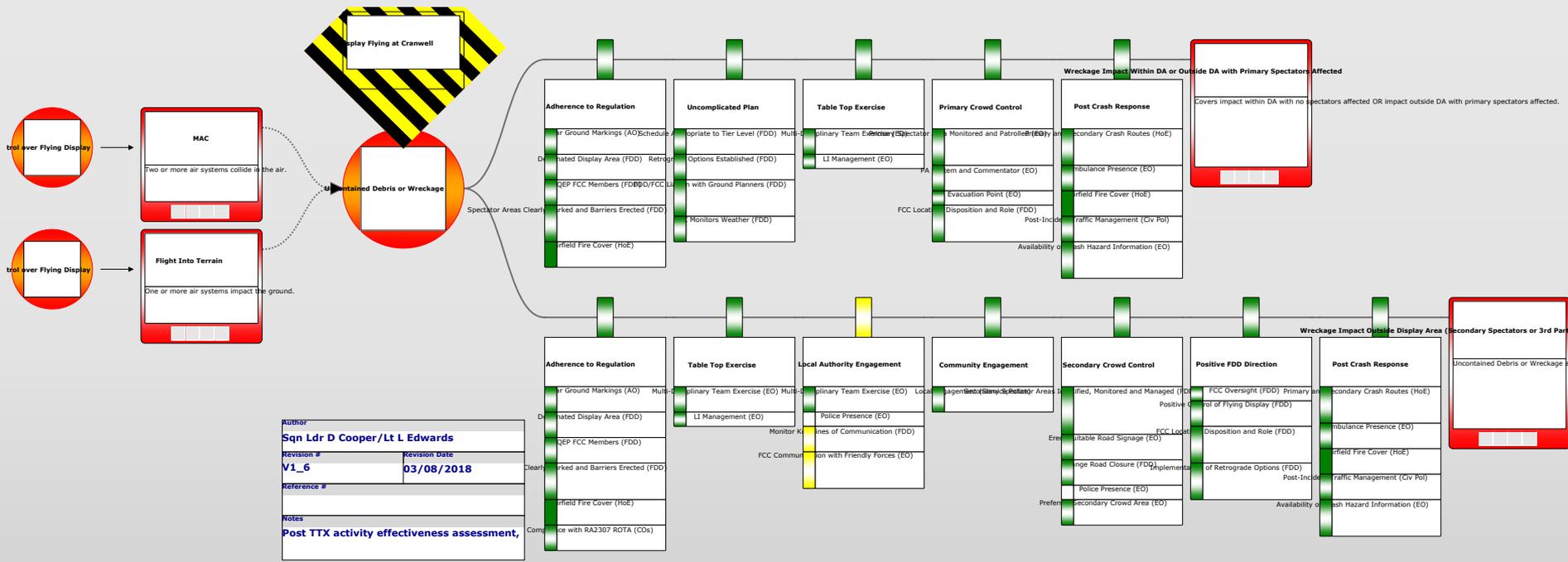
Seasons Lows

FDD Regulation

- Significant changes in last 3 iterations of CAP and MRP.
- Is it clear?
- Did you need to engage with the regulator to seek clarification during your event?
- How did they respond?
- What, if any, changes should be considered for the next iteration?

Risk Assessment

- How have these changed in the last 3 years?
- Is there sufficient guidance available to FDDs?
- Is it clear who owns what risk, when (FDD v EO v Operator)?
- What is the lived experience?
 - How did you approach the RA?
 - How much time, energy and effort did it take?
 - Did it add value to your planning? If not, why not?
 - What could you do differently next time around to improve the product/make the process more useful?



Other Pre-display Lessons

- Use of RAFRLO as conduit to SAG/emerg planning.
- Booking adjacent airspace (eg danger areas).
- What is the FCC's role during the prep stage? How did you use yours and what would you do differently next time?
- How did you start your planning? Is last year's model always the de facto starting point?
- Who are the key interlocutors (HoE, EO etc) and how does their role impact yours? How did you manage this?
- What template did you use for your pilots' notes? Did you seek feedback from the pilots – and did they provide it?

FCC Briefing Pack

- The CAA recommend that each member of the FCC is provided with a briefing pack containing, as a minimum, Clear TORs (Cap 403 para 4.8 – 4.11), a formation /scenario briefing observation checklist, a map clearly delineating the display area and the applicable minima (including outside the Display Area), a sheet designed for the purpose of monitoring containing pertinent minima and limitations for each participant and a roster showing duty times and locations.

On the Day Lessons

- Toolkit recommendations:
 - Comms/Use of Whatsapp?
 - Use of minima spreadsheet?
- FCC disposition – how did you monitor it all, especially the lateral separation?
- How did you provide the FDD/FCC with the capacity to actually monitor the display participants?
- What lessons from the build up and tear down phase? How did you ensure safe arrivals/departures as the show site is being prepared/disassembled ?
- Were your pilots' notes effective?

EXTRACT from ORS4 Gen Provision 1174 dated June 2016

- 11) Revocation These permissions replace Official Record Series 4 Number 1124 which is revoked with effect from 18 August 2016.
- 12) Validity These permissions have effect from 18 August 2016 until they are revoked.
- P Clarke for the Civil Aviation Authority 6 June 2016
- Explanatory Notes:
 - Flying Displays, Air Races and Contests. The removal of flying displays, air races and contests from the scope of these General Permissions follows publication on 10 March 2016 of Air Accidents Investigation Branch (AAIB) Special Bulletin S1-2016 and the recommendation to the Civil Aviation Authority contained therein that it removes the general exemptions to flight at minimum heights issued for Flying Displays, Air Races and Contests outlined in Official Record Series 4 No 1124. Operators of civil-registered ex-military jet aircraft have, since publication of CAP1400 (UK civil air display review: final report (CAA April 2016) been required to seek formal approval from the CAA to perform aerobatic manoeuvres below 500 feet.

After the Event

- Did you have the opportunity to debrief the FCC and EO/HOE? If not why not?? Were useful lessons identified?
- Do you have a record of what you will do differently?
- Were you subject to MAA or CAA Oversight and was it irksome or useful? Responses and timing?

FDD Lessons

- Request for guidance in relation to static ac landing at offsite locations – bounds of regulatory coverage
 - Consensus view was to seek RW advice rather than increase regulation – ie EO has a responsibility to manage the activity (with FDD support)
- RA2335 will better define ‘third party v secondary spectators’ ie will be more consistent in use of the terms
- RAs from first principals – ie don’t just dust last seasons. The RA is but part of the process of RM.
- Use a tool you’re comfortable with.

FDD Lessons

- SAG's often lack air expertise so be careful in what you expect of them (ie don't expect them to critique your RA).
- Use of RAFRLO seen as positive.
- Recording of incursions – RA(T) v NOTAM? All saw protection of airspace as an issue, no guarantees!
- Use your FCC at all stages, not just on the day.
- Consider mini desk top ex on the day?
- FDD responsible for monitoring minima – use FCC and other tools (eg wireless CCTV) as an aid to decision making

FDD Lessons

- Be careful when using readily available tools such as Whatsapp – have a back up, but...
- Can be used to innovate – eg sending photos of the site on the day to inform display pilots.
- Some FDDs recommend using live ac to fly at height and lateral separation to ‘get their eyes in’.
- Having the conversation is key – ensuring passage of understanding through direct liaison (EO/FDD/FCC/Pilots) absolutely essential.

FDD Lessons

- Do we need a 75m line...?
- Post event washups are essential to capture lessons to support next year's event and allow sharing of lessons.
- MAA should consider putting its assurers through the FDD course or use specialist advisors/SMEs on their visits.