



FAA Air Show and Aviation Events Update

Sue Gardner – FAA, National Aviation Events Specialist (NAES)
Flight Standards

Commercial and General Aviation Division, AFS-800
Washington, DC

Champagne 1/2

December 05, 2016

4:45 p.m. – 5:45 p.m.

What did we do?

- 250+ Air Shows and 1000+ Aviation Event CoW/As

Millions of Spectators

- Safety Planning
- Coordination
- Integration



How safe are airshows?

Air Shows offer a consistently and historically safe environment for millions of spectators each year.

Since current rules were implemented well over 60 years ago, there has not been a single spectator fatality at a North American Air Show – an enviable safety record.

Accidents / Incidents

☐ Air Shows

- ☐ Stearman – Madras, OR (Fatal)
- ☐ T-28 - Cold Lake, Alberta (Fatal)
- ☐ Pitts S-2SW – Atlanta, GA (Fatal)
- ☐ Military –
 - ☐ F-18 New Smyrna, TN (Fatal)
 - ☐ F-16 Colorado Springs, CO (Non-Fatal)

☐ Parachute Demonstrations

- ☐ Civilian - Round Canopy Dunnellon, FL (Fatal)
- ☐ Civilian – USPA Middletown, OH (Fatal)



Flight Standards Resources

National Aviation Events Specialist (NAES)
Sue Gardner (AWA) (630) 880-5834

Regional Aviation Events Specialist (RAES)

Anthony Mauro (AEA)	(718) 553-3236
Eric Stout (ASO)	(404) 305-6066
Marcus Sampson (ASW)	(817) 422-0421
Derek Dunmire (ACE)	(314) 890-4827
Roy Speeg (ANM)	(406) 449-5270 x11
Ken Thomas (AAL)	(907) 271-5368
Kevin Raymond (AGL)	(847) 294-7155
John Goldfluss (AWP)	(310) 725-7249



FAA Air Traffic Organization Resources

OSG Special Events Coordinators

FAA HQTs (202) 385-6194

ATO Service Centers

- | | | |
|-------------------|------------------------|----------------|
| ➤ Lynda Otting | Eastern Service Center | (404) 305-5577 |
| ➤ Joe Ruddy | Central Service Center | (817) 222-5858 |
| ➤ Rich Farnsworth | Western Service Center | (425) 203-4516 |

Aviation Events Website Policy for TFRs and Radio Frequency's

- <http://www.faa.gov/about/initiatives/airshow/>





FAA Air Traffic Organization Resources

FAA Emergency Response and AvERT Team

- Tim Butters (ARP) (202) 603-6458
- D. Shawn Fenn (AVS) (202) 267-3719
- Ken Larcher (CAMI) (405) 954-0692

Flight Standards Resources

Stop by the **FAA Exhibit, Booth 917**

Meet the RAES, ATO Reps, and ERP Team

- **Demo – AvERT Risk Tool**
- **Answer questions on new ERP requirements**
- **Demo – FAA Aerobatic Box Validation Tool**
- **...and anything else on you want to discuss**

FAA Resources - AFS Environmental

Environmental Information Documents (EID)

- AFS-830 General Aviation and Commercial Division
 - ☐ Mike Millard
 - ☐ Phone: 513-842-9690
 - ☐ Email: mike.millard@faa.gov
 - FSDO will Email all EIDs and FAA Form 7711-2 to a standard FAA mailbox within 10 days of receipt from applicant
 - Updated EID located on FAA Website –
<http://www.faa.gov/about/initiatives/airshow/>



FAA Resources - AFS and AIR Airworthiness and Aircraft Certification

Aircraft Maintenance Division - AFS-350

- ☐ Kevin Morgan (FLM) - (202) 385-6429
- ☐ Jude Sellars – (225) 788-1829

Aircraft Certification Service - Production and Airworthiness Division – AIR-230

- ☐ Brian Cable (FLM) - (202) 385-6453
- ☐ Craig Holmes - (202) 385-6353





FAA Aviation Events Policy

- FAA Order 8900.1 Vol 3 Ch 6 and Vol 6 Ch 10
 - Issue a CoW/A for an aviation event and surveillance.
 - V6 - Combine chapter 10 and 11
 - V3C6 and V6C11 - Revision FY17
 - FAST/FFI Manual - New Revision FY 17
- FAA Order 8900.1 Vol 5 Ch 9
 - Statement of Aerobatic Competency Card (SAC)
 - Notice Issued 2nd QTR FY16
 - New Revision FY 17
 - ACE Manual ICAS/EAA
 - ICAS Ver. 8.0 FY15 - New Revision FY 17
 - EAA WoA Ver. 2.0 FY15 - New Revision FY 17

FAA Aviation Events Policy

- FAA Order 8900.1 Vol 3 Ch 5
 - Issue a CoW for an Aerobatic Practice Area and Contest Box
 - Notice Issued 2nd QTR FY16
 - New Revision FY 17
- AC-91-45C - Aviation Events
 - Revision D – FY17
- AC 105 – 2E – Parachute Operations
 - December 2013



FAA Aviation Events Policy

- New 8900.1, Volume 5, Chapter 9, Section 2
 - Issue a CoW for Aerobatic Competency Evaluation/Practice (ACE/P) (FY 2017)
- New Web OPSS paragraphs for aviation events CoW/A and LOAs– Develop/Update (FY17)
 - J501 CoA Parachute Demo
 - J502 CoW Aviation Event
 - J503 LOA Aviation Events



FAA Website – Aviation Events

<http://www.faa.gov/about/initiatives/airshow/>

- Update with 2017 Air Show Season Info
February – March 2017

Partners

- Industry
 - ICAS - ACE Committee, Safety Committee,
 - EAA Warbirds of America, CAF
 - FAST, FFI
 - IAC
 - USPA
 - RARA
 - BFA
 - NAR/Tripoli
 - AMA
- Military- Pentagon
 - U.S. Air Force U.S. Navy U.S. Army





North American Regulatory Authority Partners -

- Transport Canada (TC) – Pierre Ruel and Francis “Frank” Mercier
 - CAR 623
- Canadian DND – Michel "Spike" Tremblay and Daryl Shyiak
 - BGA-100

TC – FAA and TC goal to continue work to align policies in FY 17



What's New?

- Aviation Event Policy
 - UAS Demonstrations
 - Formation – Civilian
 - Performers and Aircraft Inspections
 - Emergency Response
 - Military – Ingress/Egress
- ACE Manual
 - ICAS/EAA
 - New SAC Form
 - Dynamic Maneuvering
- ACE/P Operations
- Electronic CoW/A Process – Web OPSS
- Charting Project - APAs
- Extend CoW APA - 3 yrs
- FAST/FFI
 - Standard Formation
- Air Boss Certification
- FAA Training - Aviation Events
- Timelines for Processing CoW/A



FAA Policy Proposed Revisions:

- Sample site diagram amended
- Add to diagrams term "congested area" - inadvertently omitted in Change 86
- Diagrams and language clarify' s positioning of team lead and wingmen for formation flight for each category of aircraft
- Amended language for Night and Civil Twilight
- Amended language for Helicopter Operations
- Parachute Civilian (USPA License/Rating or FAA LOA)
 - WWII/Round Canopy LOA-Standards
 - Expanded language/alignment with USPA for all other civilian parachute demos



FAA Policy Proposed Revisions (cont'd):

- PARTICIPANT AND AIRCRAFT ELIGIBILITY-Aerobatic Competency Documentation.
 - Prior to performing at an air show civil aircraft pilots must show evidence of **performing or practicing their performance(s) within the previous 45 days.**

An air show performance conducted under an “Airshow” CoW is **never** counted as a practice even if the event organizer is calling it a “practice” or “media” day.



FAA Policy Proposed Revisions (cont'd):

- Statement of Aerobatic Competency (SAC) -
- ICAS ACE Manual (Rev 8) EAA WoA ACE Manual (Rev 2)
 - New Qualification, Proficiency, and Currency for Aircraft (Cat)/Level/Endorsements on SAC
 - Approved by FAA and TC
- NOTICE Issued 2016 - FAA Order 8900.1 Vol 5 Chapter 9 Sect 1
 - New FAA Form 8710-7 SAC in lieu 2" x 3" SAC card -
 - Electronic Copy accepted
 - Updated procedures and FSDO Coordination
 - Notification of accidents, incidents, or violations
 - Revocation
 - Updated Aircraft Categories, Levels, Endorsements for EAA WoA and ICAS
 - New Endorsement – Dynamic Maneuvering – Solo and Formation



FAA Form 8710-7 Statement of Aerobatic Competency (SAC)

- New FAA eForm
 - Use in electronic format
 - New Qualification, Proficiency, and Currency for Aircraft (Cat)/ Level/Endorsements
- TC has Similar Form

STATEMENT OF AEROBATIC COMPETENCY (SAC)
FAA FORM 8710-7

Date: January 15, 2015



US Department of
Transportation
Federal Aviation
Administration

Pilot: J. J. Jones
Certificate Type/No: Commercial 12345678
Phone: 999-999-0000
Email: JJ.Jones@faa.com
SAC Issuance: 01-15-2015
SAC Proficiency Expiration: 12-31-2016

FAA ASI: J. J. Smith
FSDO: DuPage - AGL-23
Signature:
Phone: 666-999-0000
Email: J.J.Smith@faa.com

ICAS Recommendation
Waiver ID 80609

AUTHORIZED AIRCRAFT	AUTHORIZED AIRCRAFT CATEGORY	ALTITUDE LEVEL	SHOW LINE CATEGORY	ENDORSEMENTS: ALL AIRCRAFT CATEGORIES	EXPIRATION DATE: AIRCRAFT CATEGORY/LEVEL/ENDORSEMENT
Boeing Stearman - All Variants MXC-2/MXS/MXR	Sport Aerobatics - Category A	Level 2 - 250 feet AGL	Category III - 500 feet	Solo Aerobatics Circle the Jumpers	01-31-2018
Hawker Hunter	Jet Warbird Aerobatic - Category B	Level 1 - Unrestricted	Category I - 1500 feet	Solo Aerobatics	12-31-2014
<p>I understand that this statement of competency does not authorize deviation from 14 CFR Part 91 except as defined in a waiver number and the terms of a Special Provision contained in a Certificate of Waiver (FAA Form 7711-1) for an Airshow.</p> <p>PILOT SIGNATURE _____ DATE _____</p>					



FAA Policy Proposed Revisions (cont'd):

Formation Demonstrations – Civilian

- Recommendation submitted from Industry Dec 2015
 - FAA Policy Finalized 2016
 - Implementation 2017 – FAA Policy/ACE Manuals/FAST/FFI Manuals
 - Grandfathering considerations via LOA (2016)
- Formation Demonstrations – Civilian
 - Standard Maneuvering (FAST /FFI Card)
 - Dynamic Maneuvering (SAC - ICAS/EAA)
 - Solo (Replaces 90/90 endorsement)
 - Formation (new)
 - Formation Aerobatics (SAC - ICAS)

Note: Military Jet Team approvals – no changes

* Expanded discussion in ACE and Performer Briefings during ICAS



FAA Policy Proposed Revisions (cont'd):

ACE/P Operations

- Policy Development 2016 – FAA Policy/ACE Manual
 - Implementation 2017
 - ACE/P Operations is a necessary tool for accomplishing FAA requirements for SAC holders (performers) required to be evaluated and practice, by FAA policy (FAA Order 8900.1)
 - (Upon request of the FAA, civil aircraft pilots must show evidence of performing or practicing their performance(s) within the previous 45 days 8900.1, V3, C6, SI, P3-145(a)(4))*
 - Provides greater access and flexibility to evaluations and practice at air show altitude and simulate air show environment for the holder of a SAC or applicant for a SAC.
 - Additional tool for the air show performer in addition to an APA (LT and ST). Provides mobility & easier access to airport environments
- * Expanded discussion in ACE and Performer Briefings during ICAS



FAA Policy Proposed Revisions (cont'd):

Military Jet Teams – Ingress and Egress Routes

Implementation 2016 season – FAA Policy/Support Manual

- Individual Request from the CO is no longer needed for each Air show site to fly along specified ingress/egress routes within 3 NM from show center, as low as 200 feet above the highest obstacle (within a 500 foot horizontal radius)
 - Language added to LOA for each Military Jet Team
- A representative of the military jet demonstration team, will conduct an onsite survey during the current air show season
- Results will be provided in writing with aerial diagrams and charts to the event organizer and IIC and discussed to ensure all parties have a thorough understanding. **(preferably at the preseason meeting)**
- IIC will state approved in Airshow CoW Special Provision



FAA Policy Proposed Revisions (cont'd):

Emergency Response Requirements –

Briefing: 12:30 PM Thursday, Versailles I&2 - “When Seconds Matter: Building and Improving your Air Show's Emergency Response Plan”

- New requirements are included in updated [FAA Order 8900.1, Volume 3, Chapter 6](#) and [FAA Advisory Circular 95-45 Waivers: Aviation Events](#) (scheduled for publication February 2017)
- Emergency Response Plan- Required with all CoW Applications (FAA Form 7711-2)
 - Performer Extraction Instructions required to be submitted
- Response resources must be dedicated response only to aviation incidents. If redirected to other incidents or events, all flying suspended until back in position.
- Requirement for 1 minute response to aviation incident within the aerobatic box
- The emergency response plan (ERP) should be risk-based and consider the entire venue, not only aviation risks
- The ERP should be coordinated with and approved by the local emergency response officials
- The ERP must utilize the National Incident Management System/Incident Command System (NIMS/ICS) including preparation of an Incident Action Plan (IAP)
- Includes requirement for Operations-based exercise using air show scenario

AvERT

The Aviation Event Risk Tool

Part 2: Safety Risk Assessment and Adjudication

Event Analysis and Hazard Identification

Show line category/ies: ☐ 1 ☐ 2 ☐ 3

Performer type(s): ☐ Civilian ☐ Military (sanctioned) ☐ Military (non-sanctioned)
☐ Parachute team ☐ Rocket launch ☐ UAS
☐ Other: N/A

ADJUDICATE RISK

Hazard	SRM Objective(s)	Residual Risk			Task 5.1
		Casualties	Property	Continuity	Disposition
Lightning	0 serious injuries or fatalities	16	8	4	Acceptable with hazard monitoring and PA system available.
Hail	0 injuries/fatalities	4	6	6	Acceptable.
High winds	0 serious injuries or fatalities	3	3	9	Acceptable with proposed controls.

Hands-on: FAA Exhibit, Booth 917

Demo and Briefing: 12:30 PM Thursday, Versailles 1&2 - “When Seconds Matter: Building and Improving your Air Show's Emergency Response Plan”

- New FAA Policy and Guidance on Emergency Response Planning

FAA Policy Proposed Revisions (cont'd):

- New Web OPSS paragraphs for CoW/A and LOAs issued for aviation events
 - 1. J501 CoA Parachute Demo
 - Blanket CoA – Parachute Team 1 year
 - 2. J502 CoW Aviation Event and APA
 - Airshows and APA – 1st Priority
 - 3. J503 LOA Aviation Events
 - AFS-800 approval LOA
 - Military
 - Parachute Demo Teams - Civilian
 - ACE Program and SAC – ACE/P LOA
 - Formation Programs





FAA Policy Proposed Revisions (cont'd):

New Policy authorizing a UAS Demo at aviation events

- Coordinated effort with AFS-800 and UAS Office
- Beta Test conducted 2014/15/16 season
 - Developed Draft FAA Policy and AMA Guidelines
- Beta Test Authorized for 2017 – Otherwise Prohibited
 - Coordinate with RAES and UAS Office Regional POC
 - When new policy published – authorized in accordance with policy
- Leave your Drone at Home during airshows
 - Educational materials on FAA UAS Website
 - New app to show where not to fly your drone.

FAA Policy Proposed Revisions (cont'd):

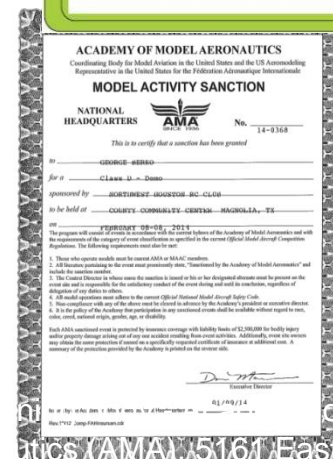
- 3 Types of UAS
 - Part 101– Hobby or Recreational UAS
 - Part 107 - Civil UAS
- 3 Types of UAS Demos at Aviation Events with a CoW
 - Demonstrations - Inside Flying Display Area/Aerobatic Box
 - Demonstrations – Educational Marketing inside aviation event demonstration area
 - Demonstrations – Inside netted arena or structure

Note: Part 107 UAS Waiver for photography and surveillance in development
- UAS Demos – Coordinate with RAES and AFS-80 POC early to ensure compliance with Part 101 or 107
 - Part 107 CoW issuance
 - Reissue CoA or Ops Limits



FAA Policy Proposed Revisions (cont'd):

- FAA UAS Policy/AMA Guidance – Part 101
Hobby or Recreation
- Aviation Events require an Academy of Aeronautics (AMA)
Sanction letter listing the name of the Contest Director (CD)
(provided to the responsible person/Air Boss) part of the CoW
and Special Provisions.
 - An AMA (CD) is responsible for the Airworthiness of the
aircraft. Knowledgeable of the capabilities of Model Aircraft
pilots performing under the CoW.
 - The CD presents credentials to the IIC upon request
 - Liaison between the IIC, Air Boss, and R/C model performers.
 - Familiar with AMA rules pertaining to the minimum show line
requirements for model aircraft.
 - Required to attend the airshow safety briefing.
 - AMA authorized Safety Officer is required to be present
 - FPV Not authorized
 - AMA guidance on FAA Aviation Events Website



www.modelaircraft.org

FAA Policy Proposed Revisions (cont'd):

Rocket Launches:

New Policy authorizing a rocket launch at an aviation event

- Coordinated effort with FAA Flight Standards, Air Traffic, and Commercial Space Transportation Office
- Coordinated with NAR and Tripoli
- Requirement for a Safety Analysis by AST (surface and airspace) for every launch
- Class I, II, III Rockets
- Successful Beta Test Rocky Mountain Air Show





FAA Policy Proposed Revisions (cont'd):

Airworthiness – Aviation Events

- Surveillance – Update/Merge Policy (V6 CII S10/*II)
 - Job Aid for IIC
 - New Status Sheet - Aircraft
 - Checklist for Event Organizer
 - Performers
 - Aircraft
 - Parachutists

Expanded discussion on checklists in ACE and Maintenance briefings during ICAS.

Aircraft Status and Inspection Form

N: _____ S/N: _____ Make: _____ Model: _____

Inspection (Check the Inspection that Applies)	Compliance Date & Hours	Next Due
<input type="checkbox"/> Annual		
<input type="checkbox"/> Condition		
<input type="checkbox"/> 100 Hour (If Required)		
<input type="checkbox"/> Progressive		
<input type="checkbox"/> 91.411 (Altimeter/Static)		
<input type="checkbox"/> 91.413 (Transponder)		
<input type="checkbox"/> 91.207 (ELT Inspection)		

Recurring AD's	Description	Compliance Date & Hours	Next Due

I certify this information accurately represents the applicable information documented in the aircraft maintenance records and the records were reviewed on this day to verify the inspection and airworthiness directive status of this aircraft. This form is valid until the next inspection or airworthiness directive is due.

Owner/Operator (Print Name): _____

Signature: _____

Date: _____

Reference Information:
8900.1 Volume 3, Chapter 6, Section 1, Paragraph 3-145 F.
8900.1 Volume 6, Chapter 11, Section 10, Paragraph 6-2379 C *

* Indicates this guidance is in draft mode and is not available to the public at this time.



FAA Policy Proposed Revisions (cont'd):

Performer Qualifications and Aircraft Airworthiness

- New Policy to standardize, simplify, and reduce workload
 - Coordinated effort with FSDO and Event Organizer to gather information from performer(s) to establish qualifications for
 - Aircraft/Pilot/Parachutists
 - Review of Aircraft and Performers documents conducted in advance of event
 - Electronic Scans of documents accepted – 30 days in advance
 - Onsite inspection of aircraft and performer documents - one time per season unless safety issue identified

Aviation Event Inspection Job Aid

Aircraft Inspection Requirements:	Performer Inspection Requirements:
1) Date: _____	1) Pilot Name: _____
2) N-Number: _____	2) Certificate Number: _____
3) Make: _____	3) Medical Date: _____
4) Model: _____	4) Medical Class: _____
5) SN: _____	5) Government photo ID: Yes <input type="checkbox"/> No <input type="checkbox"/>
6) Current Annual/Progressive 100 HR Condition Inspection: Yes <input type="checkbox"/> No <input type="checkbox"/>	6) LOA Endorsement for pilot operating surplus military aircraft: Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
7) 91.411 (Altitude/Status): Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	7) Experimental authorization on pilot certificate for aircraft: if required by the aircraft operating limitations: Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Type Rated <input type="checkbox"/>
8) 91.413 (Transponder): Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	8) Maneuvers performed at 90 degrees pitch & bank requires a SAC: (cont.)
9) 91.207 (ELT Inspection): Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Level: _____
10) 91.417 (Reversing Airworthiness Directive Status): Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	9) Maneuvers performed below 90 degrees pitch & bank requires a log book endorsement or competency letter, within the preceding 24 Months: Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
11) General condition inspection of the aircraft <input type="checkbox"/>	10) Formation aerobatics noted on SAC card: Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
12) Airworthiness certificate: <input type="checkbox"/>	11) Non-Aerobatic formation, pilots required to have a current industry formation card (i.e. FAST): Lead pilot: Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
13) Registration (Check Expiration Date): <input type="checkbox"/>	Wingman: Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
14) Operating limitations (Review, verify signed, & date matches A/W Cert): Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	12) Performers emergency parachute inspection date within the previous 180 calendar days: (See Caution on back page): Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
15) Program letter: Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	13) Performers emergency parachute and intact: (See Caution on back page): Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
16) Exemption letter to carry passengers for hire: Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Notes: _____
17) Maneuvers to be performed are documented in the log book (Per Operating Limitations for Special A/W Certificate Aircraft): Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	_____
18) Parachutist aircraft modification paperwork (337's & W8B): Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	_____
19) General inspection of parachute aircraft modifications: Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	_____
20) Operating certificate or letter of deviation authority for larger aircraft used in sport parachuting (Part 125 aircraft): Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	_____
21) Air Racing Flight Demonstration form is signed and dated: Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	_____

Parachutist Endorsement Inspection Requirements

Event Organizer Per Aviation Event Performer/Parachutist Document Requirements

Performer Required Documents:	Yes	NA
1) Copy of pilot certificate:	<input type="checkbox"/>	<input type="checkbox"/>
2) Copy of medical certificate:	<input type="checkbox"/>	<input type="checkbox"/>
3) Copy of government photo ID:	<input type="checkbox"/>	<input type="checkbox"/>
4) Copy of the LOA endorsement for pilot operating surplus military aircraft:	<input type="checkbox"/>	<input type="checkbox"/>
5) Copy of the statement of aerobics/competency (SAC Card):	<input type="checkbox"/>	<input type="checkbox"/>
6) Copy of the industry formation card for non-aerobatic pilots:	<input type="checkbox"/>	<input type="checkbox"/>
7) Copy of log book endorsement or competency letter for maneuvers performed below 90 degrees:	<input type="checkbox"/>	<input type="checkbox"/>
8) Copy of aircraft operating limitations:	<input type="checkbox"/>	<input type="checkbox"/>
9) Copy of the emergency parachute inspection card:	<input type="checkbox"/>	<input type="checkbox"/>
Parachutist Required Documents:	Yes	NA
1) Reserve parachute packing record:	<input type="checkbox"/>	<input type="checkbox"/>

Note: Ensure the performer/parachutists submit a copy of the above mentioned documents if applicable.

Performer Required Documents/References:

- 14 CFR Part 61.3 (a) (1) or (b)
- 14 CFR Part 61.3 (c)
- 14 CFR Part 61.3 (a) (2), Order 8908.1 Volume 6, Chapter 11, Section 10, Paragraph 6-2383(E)*
- Order 8908.1 Volume 6, Chapter 11, Section 10, Paragraph 6-2479 (E), (b) (b)*
- Order 8908.1 Volume 3, Chapter 9, Section 2, Paragraph 5-1578 (B), (c)
- Order 8908.1 Volume 3, Chapter 6, Section 1, Paragraph 3-145 (A)
- Order 8908.1 Volume 3, Chapter 6, Section 1, Paragraph 3-145 (B)
- Order 8130.2, Chapter 4 (Special Airworthiness Certification)
- 14 CFR Part 105.43

Parachutist Required Documents/References:

- 14 CFR Part 105.43

* Indicates this guidance is in draft mode and is not available to the public





FAA Policy Proposed Revisions (cont'd):

Air Racing

- Closed Course Air Races - Establishes new requirements and clarifying accreditation requirements for Air Racing Classes, Organizations and Pilots for closed course races (RARA – RBAR)
 - Revision V3C6s2 to address lessons learned from RENO 2012/13/14 and RBAR 2014/2015 - Incorporate Notice 231
 - Maintenance and Aircraft modifications
 - Performance Based Rules for Course Design
 - Flight testing certification after modification by PIC
 - RARA Exemption for Fuel reserves
- UAS Air Racing – Beta Tests 2016 to develop policy
 - Part 107 CoV Required
 - Part 101 No FPV
- X-C Air Races – Lead FSDO coordinates with each course
 - Standardize Special provisions





FAA Policy Proposed Revisions (cont'd):

Aerobatic Practice Areas (APA)

- CoW APA – Extend renewal period 3 years - Approved
- Short-Term APA – Issue for 30 days or less
- Environmental Assessments (EA) – LT APA
 - 95% of all long-term waivers will be CATEx for Noise
 - EA - Extraordinary Circumstances must be considered
 - Working on Removing requirement for EID above 1500 feet AGL
 - New EID and instructions – FY16 (Jan)
 - http://www.faa.gov/about/office_org/headquarters_offices/avs/offices/afs/afs800/programs/media/aerobatic_environmental.doc
 - Reissuance – EID only check box and 7711-2 and EID submitted together
 - EIDs issued in less than 90 days – Meeting Target Goal
- Charting Project – ATO and AFS-800
 - AFD and VFR Sectionals – FY17 (04FEB 2017) (Long-term--Nav Database)

FAA Policy Proposed Revisions (cont'd):

Air Boss Certification Program

- The FAA continues to support ICAS with development of an Air Boss Certification Program
 - 2016 Final program in review with FAA
 - 2017 Goal to begin implementation
 - Initial cadre of Air Bosses
 - Initiate training new air bosses to meet qualification requirements
 - Develop FAA Policy for Air Boss LOA
 - Beta Test 2017
 - 2018 Certified Air Boss
 - Implementation of certified Air Bosses



FAA Policy Proposed Revisions (cont'd):

FLY-OVERS – FAA Notice 8900.370

- The FAA considers a stadium, race tracks, and sporting events to be an open air assembly of people, subject to regulation under §91.119(b) – Over Congested Areas.
- *flyover* is a non-maneuvering pass or a series of non-maneuvering passes, performed by one or more aircraft, over an open air assembly of persons temporarily gathered at an event (e.g. stadiums, civic events, and funerals)
- Civilian – 1,000 feet AHO and 2000 feet to the side, regardless of the aircraft type and size. No CoW is required.



FAA Policy Temporary Flight Restriction (TFR)

- Protected airspace to provide safety for the performers
- Highest altitude available: 17,999' MSL
 - **TFRs are not published in Class A airspace, but higher protected airspace can be provided by the overlying ATC facility**
- Typically 5NM radius from show center
 - Exceptions to increase up to 7NM for density altitude only
 - Lateral limits must not cut through the lateral limits of an airport traffic area.
- ATC can still penetrate the TFR with concurrence



FAA Policy Temporary Flight Restriction (TFR)

Please submit your TFR request at least 45 days in advance to the appropriate Service Center Operations Support Group

ATO Service Centers

➤ Lynda Otting	Eastern Service Center	(404) 305-5577
➤ Joe Ruddy	Central Service Center	(817) 222-5858
➤ Rick Farnsworth	Western Service Center	(425) 203-4516
➤ Bob Gegen	ANM/AAL Regions	(425) 203-4571
➤ Michele Cruz	AWP Regions	(425) 203-4562

- Graphical TFRs - <http://tfr.faa.gov/tfr2/list.html>
- For Guidance on how to apply for an Aviation Event TFR - Go to:

Aviation Events Internet Site <http://www.faa.gov/about/initiatives/airshow/>

Your 7711-2 waiver request is NOT a TFR request

FAA Policy - ATO Frequency Requests

- Air/ground frequency requests can be sent to the same Service Center contact
- Frequency Management requires a minimum of 60 days to approve some frequency requests
- If the frequencies are used by non-FAA personnel, then a temporary station license must be requested from the FCC. The FAA is not involved with this, and FCC timeframes differ.
- http://www.faa.gov/about/initiatives/airshow/media/Air_Show_Freq_Request_Guidance.pdf

FAA Policy – ADS-B equipped aircraft – Aerobatic Flight

- **ICAS and IAC supporting FAA/Industry ADS-B Workgroup**
 - Discuss impacts of aerobatic flights that result in avionics performance below that required by 91.227 (ADS-B Avionics performance)
- **FAA PAPR service and AFT notifications.**
 - PAPR Service - Independent verification of ADS-B system performance.
 - AFT notifications (phone, email, & Letter of Findings) are perceived by some as a form of enforcement action, but are intended only to make the owner aware of an avionics issue that needs to be corrected.

FAA Training - Aviation Events and APAs

- FY16/17 FAA completes training for FAA workforce responsible for Aviation Events and APAs
 - Web based course and 3 day Instructor led course ready 2nd QTR FY 2017
 - Addresses the life cycle of Aviation Event and APA CoW/As
 - Initial request through surveillance and after action
- Thank You ICAS for their many years of excellent training for FAA IICs and ASIs with oversight responsibilities for air shows



QUESTIONS

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**FAA Exhibit
Booth 917**

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Convention Mobile app

-OR-

Pickup a paper evaluation form outside of the
session room