

From: [Gardner, Sue \(FAA\)](#)
To: [Gardner, Sue \(FAA\)](#)
Subject: FW: Non-aerobatic maneuvers with formation or multiple aircraft directing ETC during an airshow
Date: Thursday, March 31, 2016 2:30:58 PM
Attachments: [ICAS -FAST-FFI Deviation Memo signed 04212015.pdf](#)
[AFS800 Deviation memo Email Attachment 1 Team Listing FFI FAST.pdf](#)
[image005.png](#)
[image006.png](#)
[image007.png](#)

From: Gardner, Sue (FAA)
Sent: Thursday, March 31, 2016 11:51 AM
To: 'Jim Tobul'; 'Bob Mills'; 'John Cudahy'; 'Dan Hollowell'
Cc: Fagan, Vincent (FAA); Giron, Mark E (FAA)
Subject: RE: Non-aerobatic maneuvers with formation or multiple aircraft directing ETC during an airshow

To Jim Tobul (FAST) and Bob Mills (FFI),

This email is in response to the previous correspondence (emails) sent providing the list of FAST and FFI Teams evaluated by designated FFI or FAST check pilots in accordance with the **Memorandum from AFS-800 issued April 22, 2015 to FAST, FFI and ICAS** providing relief from Volume 3, Chapter 6, Paragraph 147 (3)(b) of Change 86 to FAA Order 8900.1 (see attached). This Memorandum continues to provide relief from the policy requiring non-aerobatic maneuvers that direct the energy of multiple aircraft or aircraft in formation toward the primary spectator area, that are prohibited, unless approval for that maneuver is granted using a process that is explained in Paragraph 3-149 (B), subparagraphs 1-4 of FAA Order 8900.1.

ICAS, FFI, and FAST requested relief from the process outlined in Paragraph 3-149 (B), subparagraphs 1-4, on behalf of the individual pilots who hold a ICAS Statement of Aerobatic Competency (SAC), or a Formation credential issued by FAST or FFI, until such time as a change to FAA Order 8900.1, Volume, 3, chapter 6, section 1, Paragraph 147 (3)(b) is approved and implemented.

AFS-800 has granted relief from this requirement [Order 8900.1, Volume, 3, chapter 6, section 1, Paragraph 147 (3)(b)] for those performers who hold an ICAS Statement of Aerobatic Competency (SAC) with an endorsement for solo or formation aerobatics, or a FAST or FFI industry formation credential, meeting the applicable conditions in the attached AFS-800 Memorandum. The implementation period will be defined when the policy change [FAA Order 8900.1 Volume 3 Chapter 6 Section 1] developed in collaboration with ICAS, FFI, FAST, and EAA WoA is approved and disseminated via FSIMS.

1. In accordance with requirement #6 of the AFS-800 Memorandum, relief from paragraph 3-149 is only applicable to maneuvers evaluated by a duly authorized ICAS ACE, FFI or FAST check pilot.
 - a) Those performers evaluated by a duly authorized ICAS ACE, FFI or FAST check pilot, who hold an ICAS Statement of Aerobatic Competency (SAC), or a FAST or FFI industry formation credential, meeting the applicable conditions in the attached AFS-800 Memorandum, are granted relief to conduct non-aerobatic maneuvers that direct the energy of multiple aircraft or aircraft in formation toward the primary spectator area, while performing under a CoW for an airshow.
 - b) The attached list of FFI and FAST Formation Teams have been evaluated and recommended by a FFI or FAST check pilot as eligible for relief in accordance with the AFS-800 Memorandum. These teams are authorized to continue to conduct the evaluated maneuvers, a mix of non-aerobatic maneuvers that involve multiple aircraft and formation aircraft that direct energy toward the primary spectator area, while performing under a CoW for an airshow.
 - c) Pilots receiving this relief are expected to have the AFS-800 Memorandum and present their current and valid ICAS SAC, FFI, or FAST credential, if requested. FFI and FAST Teams on the attached list should have this email available, if requested. An electronic copy is acceptable.

A copy of this email (including attachments) will be forwarded to the Regional Aviation Events Specialists (RAES) and forwarded the Flight Standards District Offices (FSDO) to be available for the 2016 Airshow season.

This office is available to answer any questions you may have concerning this email, the AFS-800 Memorandum (dated April 21, 2015) or FAA aviation events policy. I can be reached by telephone at (630) 880-5834 or via email at sue.gardner@faa.gov. Looking forward to a safe and successful airshow season in 2016!

Attachments: 1. List of eligible FAST and FFI Formation Teams (dated March 30, 2016)

2. AFS-800 Memorandum (dated April 22, 2015)

Best regards,

Sue

Sue Gardner
General Aviation and Commercial Division AFS-800
National Aviation Events Specialist (Air Show Coordinator)
847-294-7970 (office)
630-880-5834 (cell)

From: Gardner, Sue (FAA)
Sent: Wednesday, April 22, 2015 3:35 PM
To: Jim Tobul; Stuart B McCurdy; John Cudahy; Dan Hollowell
Cc: Fagan, Vincent (FAA); Giron, Mark E (FAA)
Subject: Non-aerobatic maneuvers with formation or multiple aircraft directing ETC during an airshow

Good morning all,

Please find attached a Memo from AFS-800 providing relief from FAA Order 8900.1, Volume 3, Chapter 6, Section 1 as requested over the course of the last few days. Your cooperation working together and with the FAA to find a resolution to this issue is greatly appreciated.

This Memo has been provided to the FAA POC for Sun N Fun, Larry Enlow. The memo will be sent to each Regional Aviation Events Specialist (RAES) who will disseminate it to the FSDOs within their regional boundaries. It will also be posted on the FAA internal aviation events website.

As discussed today, we are requesting the following steps are taken:

1. Ensure the Memo reaches your membership who will need this document. Email the NAES (sue.gardner@faa.gov) when this action has been completed.
Timeline: Immediately (understanding technical challenges of being on-site at Sun n Fun)
2. Develop a Safety/Ops Bulletin that will be disseminated to your membership discussing the safety considerations when flying formation or multiple aircraft that directs non-aerobatic energy towards the crowd. Examples of points to consider addressing are show line requirements, flight over primary or secondary spectator areas, repositioning turns, repositioning formations in the turn, and crossing maneuvers.
Timeline: 30 days or less
3. For FFI and FAST: Review your respective formation training programs to address formation flight while under a CoW for an airshow, development of a maneuvers profile for formation flights used during an airshow, and evaluation criteria for check pilots and team leads. Initiate development/modification of a module to address this.
For ICAS: review criteria in ACE Program and ACE Standardization Training and assess if additional changes are needed in these areas.
Timeline: Final draft of changes by FAA/FAST/FFI/ICAS meeting at EAA Air Venture.

We discussed individually on the calls this morning reference arranging a conference call next week after Sun N Fun is over. I will send an invite for a call Wednesday, April 27, 2015 at 1:00 ET. Please contact me if you have any questions.

I hope you all have a safe and successful airshow at Sun n Fun.

Best regards,

Sue

Sue Gardner
General Aviation and Commercial Division AFS-800
National Aviation Events Specialist (Air Show Coordinator)
847-294-7970 (office)
630-880-5834 (cell)

FAST Team Listing - January 2016

Class of '45
Lima Lima
Black Diamond Jet Team
Geico Skytypers
Patriots Jet Team
Hoppers Jet Team
Canadian Harvard Aerobatic Team
Retro Flight
Gary Rower and Ryland K. "Buck" Roetman
Horseman
Trojan Phlyers
Texas Twisters
The Hooligans
Red Star and The Dragon
Trojan Horseman

FFI Team Listing - January 2016

Rocky Mountain Renegades
Falcon Flight
KC Flight
Bulldog Flight
West Coast Ravens (Northwest Flight)
West Coast Ravens (NorCal Flight)
West Coast Ravens (SoCal Flight)
West Coast Ravens (Arizona Flight)
Texas V-Tails
Beechnutz Formation Flying Club
Flying Circus Airshows



Federal Aviation Administration

Memorandum

APR 22 2015

Date:

To: John Cudahy, President, International Council of Air Shows (ICAS)
Jim Tobul, President, Formation and Safety Team (FAST)
Stu McCurdy, President, Formation Flying, Inc. (FFI)

From: *foe* *Vince Fagan*
James L. Viola, Manager, AFS-800 General Aviation and Commercial
Division

Subject: Deviation from FAA Order 8900.1

This is in response to your email, dated April 17-21, in which ICAS, FFI, and FAST, on behalf of the pilots identified in those emails, asks for relief from the approval process required by FAA Order 8900.1, Volume 3, Chapter 6, Section 1, Paragraph 3-147(K)(3)(b) of Change 86. Paragraph 3-147(K)(3)(b) states in pertinent part that non-aerobatic maneuvers by multiple aircraft or aircraft in formation with an energy vector directed towards the primary spectator area are prohibited unless approved in accordance with paragraph 3-149.

After reviewing the request, the FAA finds the deviation acceptable, limited to the specific group of pilots identified who hold an current and valid ICAS Statement of Aerobatic Competency (SAC), or a FAST or FFI industry formation credential, and are, subject to the following conditions and limitations:

1. Pilots receiving relief must possess a valid FAA Form 8710-7, Statement of Aerobatic Competency, or Transport Canada Form 26-0307, Statement of Aerobatic Competency
2. Pilots receiving relief must have been evaluated by a duly authorized ICAS Aerobatic Competency Evaluator (ACE) within the last twelve (12) months.
3. Pilots receiving relief must possess a current and valid Industry Formation Credential issued FAST or FFI.
4. Pilots receiving relief must have been evaluated by a duly authorized FFI or FAST check pilot.

5. Relief from paragraph 3-149 is applicable only to a maneuver that was previously evaluated by a duly authorized ICAS ACE during the previous evaluation.
6. Relief from paragraph 3-149 is only applicable to maneuvers evaluated by a duly authorized FFI or FAST check pilot.
7. Relief from the requirements of Paragraph 3-149 is limited in scope to only that necessary for a non-aerobatic maneuver as described by Paragraph 147(K)(3)(b).
8. Pilots receiving this relief are expected to have this letter and present their current and valid ICAS SAC, FFI, or FAST credential, if requested. An electronic copy is acceptable.
9. The relief offered by this Letter of Authorization will no longer be available once Change 86 to FAA Order 8900.1, Volume 3, Chapter 6, Section 1 is rescinded, and a new change FAA Order 8900.1, Volume 3, Chapter 6, Section 1 is approved and implemented.

This office is available to answer any questions you may have concerning this Letter of Authorization or FAA aviation events policy. Sue Gardner, FAA National Aviation Event Specialist (NAES), can be reached by telephone at (630) 880-5834 or via email at sue.gardner@faa.gov.