

minimal impact on airport operators. Once the Ground Operations Plan is approved, the ACSI will send a letter to the airport operator and notify the appropriate Flight Standards District Office.

Action Required:

Please distribute to all Airport Operations staff. If your airport will host an airshow, please submit the Ground Operations Plan. It must address at least all of the following Part 139 issues related to the air show:

Airline Operations

- Include procedures for commercial operations during air show activities or setup (special taxi routes, access to terminal gates, crowd control).

Aircraft Rescue and Firefighting (ARFF) Capability and Special Emergency Response Procedures

- If necessary, indicate pre-positioning of ARFF vehicles during air show activities to maintain ARFF Index and response requirements. Identify emergency access routes around the crowd area.
- Identify additional ARFF personnel required during the air show activities and address other duties assigned to ARFF personnel.
- Indicate if hazardous materials procedures and training is needed for emergency response personnel related to the air show (hydrazine, LOX, smoke, etc).
- Describe any special emergency procedures established for the air show that are not addressed in the Airport Emergency Plan.

Temporary Arresting Gear Installed in a Runway Safety Area

- If temporary arresting systems are to be installed in a runway safety area, the threshold will need to be relocated to provide 1,000 feet of safety area past the arresting gear if the runway is to remain open. The temporary arresting gear is normally in place 4-5 days. During this period the relocated threshold will need to be marked and lighted in the following manner:
 - Mark the threshold bar with plywood sheets painted white and anchored in the grass with spikes on each side of the relocated threshold. Six sheets of plywood placed side by side are needed on each side to provide an 8-foot by 24-foot threshold bar on each side.
 - Install yellow painted chevron made from plywood sheets before the threshold bars on each side. Each chevron will consist of three 4-foot by 8-foot sheets of plywood with one sheet cut diagonal in half to form the point of the chevron. The chevrons will also need to be anchored to the ground with spikes.
 - Cover runway distance to go signs for the opposite direction from the relocated threshold.

- Place any PAPIs, VASI, REILs, or approach light systems for the relocated end out of service.
- If night operations will be conducted on the runway, install threshold/runway end lights at the relocated threshold.
- Adjust the runway edge lights for the 2,000 foot amber caution zone for the opposite direction for the relocated threshold.
- Place runway centerline lights for the opposite direction out of service.
- Cover or place out of service the runway edge lights and threshold/runway edge lights in the relocated area. If the 1,000 foot relocated area will be used for taxiing operations at night, taxiway reflectors will need to be installed.
- If the 1,000 foot safety area between the relocated threshold and arresting gear will be used for takeoff only, contact the Regional Airports Division to coordinate implementing declared distance.

Integrity of Runway Safety Areas, Taxiway Safety Areas, Object Free Areas

- Describe the Military Flight Demonstration Team centroid placement to mark the aiming point for aerial demonstrations. Describe what will be used, where will it be located, and during what period will it be in place. Indicate locations on a map.
- Will airport maintenance personnel and equipment be available to restore safety areas damaged by air show activities?

Pyrotechnic Devices

- Describe the location and placement of pyrotechnic devices and the safety of planned operations. Indicate locations on a map.
- Will special procedures be in place to provide public protection of the crowd prior to and during detonation?
- Will mutual aid fire departments be on the scene for fire protection during the detonation of pyrotechnics?

Temporary Closures of Runways and Taxiways

- Will any runways or taxiways be closed and how will they be marked?

Movement Area Maintenance

- Identify areas where aircraft or vehicles will be parked on the movement area or adjacent to the movement area. Describe barriers or procedures to keep personnel and vehicles clear of open movement areas.

Fueling Operations

- Indicate on a map any special fueling areas during air show activities.

Public Protection

- Identify crowd areas on a map, and describe barricades, barriers, and procedures to be used to control the crowd.
- Describe taxi routes for air show aircraft in relation to the crowd location, and address any procedures that will be in effect for protection of jet blast.

Special Self-Inspections

- Include procedures and identify personnel who will be responsible for safety inspections during and after air show activities. List periods when safety inspections are planned to be conducted.

Air Show Ground Vehicle Operations

- Describe procedures for escorting personnel on the movement area for air show related activities.
- Describe air show related personnel who will be authorized to operate vehicles on the movement area or adjacent to open movement areas and the training program planned for those personnel.
- Describe any special precautions or procedures that will be in place during air show activities, including setup and takedown, to prevent runway incursions.

Impact to NAVAIDs

- Indicate which NAVAIDs will be impacted by air show activities and the personnel responsible for placing NAVAIDs out and in service.

NOTAMs

- Attach a copy of NOTAMs to be issued for the air show.

Mitigation of Wildlife Hazards

- Describe any special wildlife hazard mitigation procedures that will be in place for the air show

Links:

- Airport Safety Air Show Guidelines:

http://www.faa.gov/airports_airtraffic/airports/airport_safety/airshows/

- CertAlerts:

http://www.faa.gov/airports_airtraffic/airports/airport_safety/certalerts/

- FAA Order 8900.1:

<http://fsims.faa.gov/PICResults.aspx?mode=EBookContents>

Attachments:

-CertAlert 02-07, Air Show Event Ground Operations Plan

-Airshows- Ground Operations Plans

-Pages 14-16 of FAA Order 8900.1, Volume 3, Chapter 6

-List of Part 139 airports and assigned Inspectors