

2019 Navy Tailhook Legacy Flight Support Manual



Introduction

Congratulations on your air show being selected as a performance site for a F/A-18 Super Hornet Tactical Demonstration, or F/A-18, T-45, or Texan II Static Display with Legacy Flight Flyover. This Support Manual will provide your air show with the information and requirements needed to host the Navy Tailhook Legacy Flight as an integral part of the Navy TACDEMO performance or Static Display.

U.S Navy Tailhook Legacy Flight Program

In 2000, Commander, Naval Air Forces, formalized the conduct of dissimilar formation flights with active duty tactical demonstration aircraft and civilian flown naval warbirds. This was the birth of the U.S. Navy Tailhook Legacy Flight Program.

These flights *"vividly demonstrate the rich history of Naval Aviation to the civilian community, other military services, and members of the Naval establishment both familiar and unfamiliar with our Naval Aviation Legacy."* They serve as a salute to historic Naval aircraft and the people who flew and maintained them. The program also supports the Commander, Naval Recruiting Command's mission to provide motivated and qualified people for Naval service.

Tailhook Legacy Flights may only be conducted by USN approved Tailhook Legacy Flight civilian pilots. The program and flight crews are also approved by the FAA. Mandatory training must be completed annually by all involved aircrew.

Tailhook Legacy Flight

A Tailhook Legacy Flight consists of one to three vintage naval warbirds and a Navy front line F/A-18 Hornet, or CNATRA training aircraft. All Tailhook Legacy Flight warbird pilots and active-duty aircrew have undergone a special selection process and training in order to qualify to participate in the program. **Tailhook Legacy Flight aircraft and crew are to be considered a part of the Navy TACDEMO or Static Display team, and are required to receive the same support as the Navy aircraft and crews.**

The flight consists of three passes: a Legacy pass (banana pass), a head-on Legacy pass, and a flight break-up from behind the crowd. The Tailhook Legacy Flight lasts approximately 5-7 minutes at the end of the Super Hornet TACDEMO, or it can be flown as a separate event with the Static Displays, for approximately 10 minutes duration.

Contact Information

2019 Tailhook Legacy Flight Coordinator

Dr. Richard "Doc" Sugden

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Phone: (307) 413-7771

*Specific Air Show Points of Contact for the Legacy Flight pilots will be passed upon initial contact

Website:

Navy Tailhook Legacy Flight

<http://www.navylegacyflight.org>

<http://www.NavyLegacyFlight.com>

Navy Legacy Flight Performance Requirements:

Fuel (Jet-A or 100LL AvGas) for each performance, and top off prior to departure. Fuel quantities are different for different aircraft. Legacy Flight will be glad to provide you with fuel requirements for the aircraft assigned to your show.

Aircraft-specific oil, oxygen and nitrogen (contact your assigned Legacy pilot).

Appropriate towbar - details from your Legacy pilot.

Hanger space in the event of inclement weather (eg. Hail)

Each pilot requires one hotel room with the Navy team.

A fully insured car with flight line pass and maps.

Airshow schedule.

Easy access to food and drinks during the show.

A practice day prior to the first day of the show.

Appearance Fee:

Navy Tailhook Legacy Flight does not require an appearance fee.

Lodging/Transportation Details

Lodging

Usually there will be only one Legacy pilot for your show, unless you have requested a multiple aircraft Legacy Flight.

The air show is required to furnish lodging for each member of the Tailhook Legacy Flight Team using the following guidelines:

- (1) **The team may also require additional rooms due to other circumstances/requirements for your show.**
- (2) Reserve rooms under the Tailhook Legacy Flight Team name as team members may change at the last minute and confusion may arise if rooms are reserved under individual names.
- (3) Should the team's aircraft experience a malfunction, they may be forced to stay longer than planned. In that case, the team would require the rooms for as long as required to repair the aircraft.
- (4) The Tailhook Legacy Flight pilot(s) should be billeted with the Navy TACDEMO Team.

Transportation

Please provide the team with a midsize rental car, and one golf cart (if available). Vehicles assigned for team use should be available for the duration of their stay, to include a continued stay due to aircraft maintenance problems. Additionally, please ensure that team members are covered by insurance while driving the courtesy vehicles.

Crew Access

Please ensure that all pilots, (as well as their vehicles) are provided with access credentials which permit unlimited access to all show areas. Such credentials should be provided immediately upon arrival.

Operations

Airfield Diagram

Air Show organizers shall provide the Legacy Flight Team with a diagram of their airfield/show site. For remote shows, the team requires a diagram of the show site as well as the airfield from which the aircraft will stage. The airfield diagram should depict the following:

- (1) Show center location, coordinates and elevation
- (2) The complete aerobatic box and boundaries of the waived airspace
- (3) The entire show line and crowd line (with distance between them) and any secondary crowd lines
- (4) Aircraft parking location and coordinates
- (5) Magnetic (MAG) bearing of the runway, depiction of Magnetic North and the scale of the diagram
- (6) Access routes to show center and aircraft parking
- (7) Overhead imagery of the airfield and surrounding area

Show Line

- (1) The TACDEMO/Tailhook Legacy Flight demonstration requires a Category I aerobatics box in order to complete the show. The show line should be an absolute straight path over the ground, located 1,500 feet in front of the crowd. If the crowd line is other than a straight line, the show line must be 1,500 feet from the closest spectator area. The Demonstration Team will use this line as the primary reference for all maneuvers.
- (2) If your show is planning on a Static Display and Legacy Flight, an aerobatic box will be required if the Legacy Flight does a rolling flight breakup ... otherwise no box is required.
- (3) In addition, a 500ft showline will be used for several fly-by passes. This should be clearly depicted on the diagram.
- (4) All markers used to define the show line should be large, highly visible and easily identifiable.
- (5) Over water show line - For demonstrations flown over water, an artificial show line must be defined by fixed markers as described above. Additionally, please ensure arrangements are made to keep non-participants from entering the aerobatic box during the demonstration.

Show Center

- (1) Show center is the location which the pilot uses to center each maneuver during the demonstration. Show center should be marked by a large, highly visible and easily identifiable object.

Aircraft Parking

- (1) Please coordinate parking with the TACDEMO senior maintenance representative when he/she arrives. The TACDEMO team prefers to park as close as safety permits to the crowd line so the crowd can see the aircrew and maintenance team at work. Please make every attempt to park civilian Tailhook Legacy Flight warbirds next to the TACDEMO jets or where pilots can see each other from the cockpits of their respective aircraft.
- (2) Marshalls are appreciated and enhance safety for some warbirds due to limited forward visibility.
- (3) Ensure the parking area has proper weight bearing capacity for the warbird selected to perform at your show. If you are in doubt, contact the respective Tailhook Legacy Flight pilot.
- (4) Provide hangar space for aircraft in the event of severe weather (hail, etc.), maintenance of aircraft or security concerns.
- (5) The parking area and all taxiways/runways the team uses must be free of foreign objects. It is mandatory that all surfaces (runways/taxiways/ramps) be thoroughly swept before the team's arrival.

Demonstration Specifics

- (1) The TACDEMO portion of our show lasts approximately 13-15 minutes. The Tailhook Legacy Flight portion is approximately 5 minutes. It is imperative that no other events be scheduled during this time to include departures/landings unless specifically briefed and approved by the aircrew.
- (2) The preferred time slot for the Tactical Demonstration is between 1200 and 1500. Any time outside of this should be coordinated with the team beforehand. The Tailhook Legacy Flight should be scheduled immediately after the TACDEMO. If this is not possible, the specific time and order of each event should be coordinated with the team.

- (3) If the Thunderbirds or Blue Angels are performing at your air show, the Tactical Demo Team/Tailhook Legacy Flight cannot fly within 15 minutes of their scheduled preshow start time.
- (4) TACDEMO aircraft must be on deck two to four hours prior to scheduled sunset. Twilight shows must be approved by higher headquarters and must be coordinated with the team lead at least 30 days prior to the event.
- (5) The morning prior to the practice is an ideal time for any Public Affairs events or tours.

Weather

- (1) The weather minimums for performing a Tailhook Legacy Flight are 1,500' ceiling/5NM visibility.

General Information

- (1) If you plan to use a 500' show line for civilian performers, the single ship demonstration team aircraft must be parked at least 300' from the 500' show line to avoid over flight of their aircraft.
- (2) To accommodate friends and family members, the Tailhook Legacy Flight Team may request reserved seats/access to the VIP areas for Team guests.
- (3) Please ensure that the Demonstration Team has easy access to meals and drinks during the air show.
- (4) **Please do not request Tailhook Legacy Flight warbird pilots to name the show as "additional insured's" on their aircraft policies. Liability insurance for show organizers is available on the insurance market. To do so dilutes the owner/pilot's insurance limits which are already limited due to the enormous value of these warbird aircraft.**

Maintenance/Security Requirements

Fuel/Oil Requirements

- (1) Tailhook Legacy Flight aircraft require Jet-A for jet warbird aircraft and Avgas 100LL for piston warbird aircraft. Please contact your respective Tailhook Legacy Flight pilot for fuel and oil requirements/amounts prior to show weekend. All fuel must be fuel-lab certified and provided by a certified vendor. All Jet-A/AVGAS is provided to the Tailhook Legacy Flight warbirds at no cost and is the sole responsibility of the show.
- (2) Tailhook Legacy Flight warbirds require a fuel top-off prior to departure.
- (3) Military sites - Arraignments will need to be made to have the appropriate fuel available.
- (4) Civilian sites - The air show is responsible for obtaining and arranging for the required fuel/oil support listed in this manual.

Maintenance Equipment Requirements

- (1) The following maintenance equipment is required for Tailhook Legacy Flight aircraft:
 - a. Aircraft specific oil, oxygen and nitrogen.
 - b. Towbar appropriate to the specific aircraft, the majority of which are tailwheel aircraft. ("Universal" towbars for nose wheel aircraft typically do not work)
 - c. One 50 pound HALON or CO2 fire extinguisher
 - d. Please check with your respective Tailhook Legacy Flight pilot for any additional equipment that may be needed for your show.

Aircraft Security

- (1) All shows:
 - a. Arrange for around-the-clock protection of Tailhook Legacy Flight demonstration aircraft from arrival until departure through local civilian law enforcement agency. No one is authorized to be on or around our aircraft without a Tailhook Legacy Flight Team member escort.
 - b. Throughout all periods when Tailhook Legacy Flight Team personnel are not present, the following requirements must be met:
 - Aircraft will be surrounded by a rope or raised barrier and an armed security patrol must provide constant observation of the aircraft.

Recruiting/Public Appearances

Recruiting

- (1) The following ideas are some of the various ways to help us with our Navy recruiting effort and to allow the public more access to the TACDEMO/Tailhook Legacy Flight Demonstration Team:
 - a. Since recruiting is at the heart of the Demonstration Team's mission, please contact your nearest Navy Recruiter as soon as possible and inform them of the planned Super Hornet/Tailhook Legacy Flight demonstration. Some possible recruiting options include meeting with local Navy Recruiting personnel, providing space for a recruiting display booth, and arranging for enlistments/reenlistments.
 - b. Feel free to invite media representatives to the practice demonstration, but please do not advertise the practice as an official demonstration.
 - c. Practices are excellent for hosting groups, which would otherwise have difficulty seeing the actual demonstrations (physically challenged, elderly, etc.). Please notify the aircrew if you plan for any special groups to attend the practice and you would like them to meet the Demonstration Team.