



Maintenance

**SCHEDULING AND PERFORMANCE
OF FUNCTIONAL CHECK FLIGHTS**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

Supersedes: 452 AMWI 21-101, 5 February 1997
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This instruction implements AFPD 21-1, *Managing Aerospace Equipment Maintenance* and establishes Functional Check Flight (FCF) procedures to ensure coordination between the respective Aircraft Generation Squadrons (AGS) and the Operations Group. It applies only to personnel in the scheduling and performance of FCFs within the 452 AMW. Reference AMCI 21-101, T.O. 1-1-300, T.O. 1C-135A-6CL-1, T.O. 1C-135A-6CF-1, T.O. 1C141B-6CF-1, T.O. 1C-141B-6CL-1.

SUMMARY OF REVISIONS:

This revision adds monitoring by Quality Assurance (paragraph 1.1).

1. Procedures:

*1.1. FCFs are performed only by FCF certified crews and are supervised by the respective AGSs, monitored by Quality Assurance ensuring all requirements of T.O. 1-1-300 are satisfied prior to the flight.

1.2. Do not fly FCFs when airworthiness of the aircraft can be determined by ground operational checks performed in accordance with applicable technical data.

1.3. Flight duration will be determined by the time required to check the system(s) causing the FCF to be flown. Minimum flight time is approximately one-half hour.

1.4. FCFs will be flown during VMC only.

1.5. The Wing/Group Commander designates, in writing, the Flight Crews that are certified to check assigned aircraft. The list will be reviewed and updated annually.

2. Responsibilities:

2.1. Aircraft Generation Squadron:

2.1.1. Notify the Maintenance Aircraft Control Center (MACC) and Quality Assurance of the time and date a specific aircraft will be flying an FCF.

- 2.1.2. Request Plans and Scheduling to coordinate with the Operations Group Deputy Commander to schedule an FCF Certified Crew.
- 2.1.3. Ensure the aircraft is configured to fly an FCF in accordance with applicable directives.
- 2.1.4. Brief the flight crew as to the purpose of the FCF to include original discrepancy, all repairs made and past history of the suspect system(s).
- 2.1.5. Maintain an AF Form 2400, Functional Check Flight Log.
- 2.1.6. Debrief the flight crew, at the aircraft, upon return from the FCF.
- 2.1.7. Ensure the Aircraft Forms and FCF checklists are properly annotated in accordance with applicable directives.
- 2.1.8. Ensure the completed FCF checklist is filed with the Aircraft Records for a period of 3 months or until replaced by a new FCF checklist whichever is later.
- 2.2. Operations Group Deputy Commander:
 - 2.2.1. Establish an FCF checkout and continuation training program.
 - 2.2.2. Document FCF crews on a certification letter after crewmember performs an initial checkout and written examination, initial and annual.
 - 2.2.3. Accomplish the FCFs as briefed by the AGS, and in accordance with referenced directives.
- 2.3. Flight Crew:
 - 2.3.1. Accomplish the FCFs as briefed by the AGS, and in accordance with referenced directives.
 - 2.3.2. Enter all the discrepancies noted in the aircraft forms in a clear and concise manner and complete all applicable portions of the FCF checklist (T.O. 1C-141B-6CF-1/C-135A-6CF-1).
 - 2.3.3. The Aircraft Commander ensures the entire crew remains with the aircraft until a formal debriefing is completed.

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