



Maintenance Management of Aircraft

ACCEPTANCE/FUNCTIONAL CHECK FLIGHTS (ACF/FCF)

COMPLIANCE WITH THE PUBLICATION IS MANDATORY

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This instruction outlines procedures for performing acceptance/functional check flights. It implements Air Force Instruction 21-101, *Maintenance Management of Aircraft*. It applies to the 919th Logistics Group aircraft maintenance personnel and aircrew members in the flying squadrons of the 919th Operations Group. An * indicates revision from the previous edition.

SUMMARY OF REVISIONS

This revision deletes the requirements for a quarterly review of AF Form 2400, **Functional Check Flight Control Log**, for trend analysis. Changed Aircraft Maintenance Coordination Center to Debrief/Dispatch Section. An * indicates revision from the previous edition.

*1. **Acceptance/Functional Check Flights (ACF/FCF)**. The Command Post Maintenance Control Center (MCC) sets up the ACF/FCF with the Flying Squadrons. Quality Assurance (QA) supervises the ACF/FCF program, reports on any trends shown by FCF histories, and provides FCF checklists and procedures manual to the aircrew.

*1.1. **ACF/FCF Crew Composition**. Structure of the flight crew is as shown in TO 1-1-300, *Acceptance/Functional Check Flt and Maint Opr Checks*, and may be changed to include specialists needed to perform or observe in-flight checks. Maintenance personnel who are to fly on the FCF must contact 919th Operations Group Standardization/Evaluation office to initiate a Mission Essential Ground Personnel (MEGP) letter.

*1.2. **FCF Area**. All ACF/FCF work is done in designated military operations areas (MOAs) as defined by flight information publications (FLIP). Any flight requirements outside these areas are cleared through 711th SOS or 8th SOS operations. Stall entry and recovery is done at a minimum of 10,000 feet above ground level (AGL). Engine shutdown is done at a minimum of 2500 feet AGL.

1.3. **High Speed Taxi Checks**. High-Speed taxi checks are authorized when necessary for maintenance troubleshooting as long as qualified FCF aircrews perform them.

1.4. Combination FCF's. The OG/CC and LG/CC, when in agreement, may authorize a combination FCF with mission or training flights during Terrain Following Radar (AN/APQ-122) system FCF's. However, this option should only be exercised after a risk assessment has been accomplished.

*2. **Scheduling of ACF/FCF and High Speed Taxi Checks.** The production superintendent or dock chief coordinates with QA when an aircraft requires an FCF or High Speed Taxi. The Debrief/Dispatch section coordinates with MCC to set up date and time for an FCF/ACF flight once it is known when the aircraft will be ready.

3. **Inspections And Preparation Of Aircraft Maintenance Records.** The crew chief provides QA office with the current maintenance record, AFTO Forms 781, **AFORM Aircrew/Mission Flight Data Document**, binder when all maintenance, including the maintenance preflight inspection, has been done. QA office reviews the records to see that all entries or transcriptions are completed. Transcribed forms accompany the aircraft AFTO Form 781 to QA office so the discrepancy resulting in the FCF and corrective action will be available for review.

4. **Prior To Flight Crew Briefing.** The aircraft AFTO Forms 781 are inspected by QA to verify that corrective actions taken on previous discrepancies are adequate and all entries affecting the FCF are correct.

5. **ACF/FCF Crew Briefing.** QA office briefs each FCF crewmember prior to flight on what is significant to the ACF/FCF and any special information. Complete crew briefing at one time if possible, but engineer preflight, etc, may dictate individual briefing. This briefing is conducted in the QA office.

6. **Controls And Accomplishment Of AFTO Forms 781 And FCF Checklist.**

6.1. When FCFs are done to check specific equipment of systems; only applicable parts of the checklist are used. QA indicates during briefing which sections of the checklist are applicable for the FCF.

6.2. Whether the FCF is completed or not, the FCF checklist and aircraft AFTO Forms 781 are returned by the FCF crew to the debriefing area immediately. QA office assists debriefing the crew and determines whether the FCF accomplished all requirements. QA office checks the FCF checklist and the aircraft AFTO Forms 781 for accuracy and ensures all other required forms have been completed.

*6.3. When aircraft has been released QA forwards FCF checklist to the documentation activity.

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