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**Maintenance**

**FUNCTIONAL CHECK FLIGHT PROCEDURES**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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(SMSgt Richard J. DeMarco)  
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This instruction establishes procedures for Functional Check Flight (FCF) in accordance with AFI 21-101, Aerospace Equipment Maintenance Management, Chapter 10; T.O. 1-1-300, *Acceptance/ Functional Check Flight and Maintenance Operational Checks*; and 1C-130A-6, *Aircraft Scheduled Inspections and Maintenance Requirements*. It is applicable to the 700th Airlift Squadron, Base Operations, 94th Maintenance Group and 94th Maintenance Operation Flight.

**SUMMARY OF REVISIONS**

This revision changes unit designations due to reorganization, changes reference from AFRCI 21-101 to AFI 21-101, and adds last three paragraphs. A bar (|) indicates revision from the previous edition.

- 1. Responsibilities:** It is the responsibility of the 94th Maintenance Group Commander and the 94th Operations Group Commander to ensure compliance with this instruction.
- 2. Procedures:** When the requirement for an FCF becomes known, the responsible section will notify the Quality Assurance Office (MXG/MXQ).
- 3. Quality Assurance will:**
  - 3.1. Notify Plans and Scheduling (P&S) of the FCF requirement.
  - 3.2. Quality Assurance personnel review the aircraft forms, identifying all items requiring FCF and prepare an FCF Workbook, (T.O. 1C-130B-6CL-1 may be used, lining out non-applicable items). A cover sheet identifying the workbook by tail number, date and reason for FCF will be attached to each and the issuance of the workbook will be noted in an FCF control log using the same information.

3.3. A Quality Assurance representative will conduct a briefing for the FCF crew. A briefing guide located in the FCF workbook and log will be used to conduct the briefing. After the briefing, the aircraft commander will sign the FCF log to indicate receipt of the briefing. In addition to the aircrew, the aircraft crew chief and a representative from the section responsible for the FCF condition will attend the preflight briefing to answer any questions the aircrew may have.

3.4. After flight, Quality Assurance will debrief the aircrew, validate that the FCF crew accomplished all requirements, review the forms to ensure that correct entries have been made and notify P&S on the status of the aircraft, (released or not released for flight). Aircraft forms will be released to the crew chief at this time.

#### **4. Plans and Scheduling will:**

4.1. Schedule the aircraft and as soon as possible request a qualified FCF aircrew to fly the mission. The aircraft will be configured the same as for local training flights. The mission will be flown without cargo or non-essential passengers.

4.2. P&S will coordinate with 700 AS Operations to establish the time for the FCF.

4.3. P&S will keep the maintenance function in the Command Post up to date on the status of the aircraft.

**5. Responsible Aircraft Crew Chief will:** See that the aircraft is ready for functional check flight and then deliver the aircraft forms (781's) to the Quality Assurance office for review with the aircrew. The crew chief will also attend the FCF briefing conducted by Quality Assurance as mentioned in paragraph **3.3.** above.

**6. Operational Check Flight (OCF):** OCF's will be kept to a minimum and are not used to replace -6 FCF requirements. OCF's will be flown by experienced aircrews (not required to be an FCF qualified aircrew) and will be accomplished following the same maintenance criteria as FCF's. Fly OCF's when an operational check is listed as a -1 or -2 requirement.

**7. High Speed Taxi Checks:** High speed taxi checks may be utilized instead of FCF's with group commander's authorization, when a maintenance ground operational check requires aircraft movement at higher than normal taxi speeds to operational check completed maintenance. If this option is exercised, process aircraft forms through Quality Assurance using FCF procedures

7.1. Perform high speed taxi checks with qualified FCF aircrew.

WILLIAM P. KANE, Colonel, USAFR  
Commander