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**Maintenance**

**FUNCTIONAL CHECK FLIGHT/  
OPERATIONAL CHECK FLIGHT & HIGH  
SPEED TAXI CHECKS**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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This instruction provides a standard procedure for accomplishment of all aircraft Functional Check Flight (FCF), Operational Check Flight (OCF) and High Speed Taxi Check requirements. It applies to all 914<sup>th</sup> Airlift Wing (AW) personnel having duties involving FCF's and OCF's. It also carries out the procedures in AFI 21-101, *Aerospace Equipment Maintenance Management*, T.O.'s 1-1-300, Acceptance / Functional Check and Maintenance Operational Check, 1C-130E(H)-6CL-1 Acceptance and Functional Check Flight Procedures, 1C-130A-6 Special Inspections and 00-20-1 *Aerospace Equipment Maintenance Inspection, Documentation, Policies, and Procedures*.

### **SUMMARY OF REVISIONS**

**This document is substantially revised and must be completely reviewed.**

#### **1. Definition:**

1.1. Functional Check Flights (FCF) that occur after inspections, maintenance, or acceptance of aircraft to insure the aircraft is airworthy and capable of accomplishing the mission. Requirements are IAW TO 1C-130A-6 or a decision exercised by commanders.

#### **2. Responsibilities:**

2.1. The Operations Group Commander (OG/CC) is responsible for appointing an Officer in Charge (OIC) for supervision and administration of all Functional Check Flights (FCF) and/or Operational Check Flights (OCF). The OIC is responsible for reviewing and ensuring qualified aircrews are performing the FCF and providing Quality Assurance with an authorized list of FCF crew members.

2.2. The Maintenance Group Commander (MXG/CC), through Quality Assurance (MXQ), will coordinate with the OPS Group OIC for all Functional Check Flights (FCF) and/or Operational Check Flights (OCF).

2.3. Maintenance Operation Center (MOC) informs Plans and Scheduling of any FCF/OCF. Plans and Scheduling will then coordinate the FCF/OCF with Quality Assurance and Operations Group to schedule the FCF/OCF.

### **3. Procedures:**

3.1. Referenced TO 1-1-300 Check flights will be conducted by the minimum aircrew required to perform check flight duties or accomplish in-flight requirements. Check flights will be accomplished without cargo and/or non-essential passengers.

3.2. Inspection and Preparation of Aircraft Maintenance Records. After the preflight has been accomplished, the crew chief will provide Quality Assurance with the present and transcribed AFTO Form 781A, Maintenance Discrepancy and Work Documentation. Quality Assurance will review the records to determine that the necessary maintenance and inspections have been accomplished and the required entries and/or transcriptions have been completed.

3.3. Weight and Balance. Quality Assurance will review aircraft weight and balance documentation.

3.4. Scheduling of OCF's and FCF's. The MOC will notify Quality Assurance when the aircraft is ready. Plans and Scheduling will coordinate with the Operations Group to schedule a crew. After the FCF aircrew has been scheduled, Plans and Scheduling will confirm the date and time with the MOC and Quality Assurance.

**4. Functional Check Flight (FCF)/ Operational Check Flight (OCF) Crew Briefs.** One hour prior to the engineer's preflight, the Aircraft Commander, Co-pilot, Navigator (if required), Flight Engineer, and Loadmaster will report to Quality Assurance to review the forms and the planned flight profile. Quality Assurance will brief the crew on items required by AFI 21-101 and all maintenance discrepancies that are pertinent to the FCF/OCF crew prior to release of the aircraft forms.

### **5. Control and Accomplishment of FCF/OCF.**

5.1. The FCF flight profile will be planned to accomplish checks of those aircraft systems marked in T.O. 1C-130E(H)-6CL-1.

5.2. When Operational Check Flights (OCF) are accomplished to check specific equipment or systems, only applicable portions of the checklist will be used. OCF's will be flown by an FCF qualified aircrew and will be accomplished following the same maintenance criteria as FCF's.

5.3. Each crew member will carefully evaluate each FCF checklist, T.O. 1C-130E(H)-6CL-1, item relative to crew position, record all discrepancies discovered on the AFTO Form 781A, and sign the "Discovered By" block in accordance with TO 00-20-1. All discrepancies found must be annotated in the aircraft forms in detail to assist in the maintenance action. Quality Assurance will assign job control numbers to discrepancies discovered during FCF.

5.4. High-speed taxi checks will only be accomplished with Maintenance Group Commander's approval and are accomplished following FCF procedures.

### **6. Completion of the FCF.**

6.1. Upon completion of the FCF, the aircrew will report to Quality Assurance and return the completed checklist, T.O. 1C-130E(H)-6CL-1, and the aircraft forms. Quality Assurance will debrief the

crew, review the checklist and aircraft forms for accuracy, and ensure all required AFTO forms have been completed. If the Aircraft Commander has determined that all aircraft systems have met the criteria in T.O. 1C-130E(H)-6CL-1, then the Aircraft Commander will release the aircraft. Once the aircraft has been released, Quality Assurance will then forward the checklist to Plans & Scheduling to be filed in the aircraft document file. If the Aircraft Commander does not release the aircraft, maintenance and aircrew will discuss the discrepancies and the aircraft will be scheduled for another FCF.

6.2. Quality Assurance will review the AFTO Form 781As after corrective action for the FCF discrepancies are complete.

6.3. Aircraft Disposition on Completion of FCF. In the event additional maintenance or flight checks are necessary, the aircraft will be returned to the responsible section (i.e., Flight Line, Inspection Section) through Quality Assurance.

6.4. FCF Aborts. All ground aborts result in a non-release. An aircraft may be released for flight if a malfunction occurs during an FCF, which is not related to the condition generating the FCF, and the original condition checks good.

## **7. Transit Aircraft Requirements.**

7.1. The owning organization provides the FCF aircrews to accomplish the FCF otherwise all rules apply to the transit aircraft as it would to unit aircraft.

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Commander