

**BY ORDER OF THE COMMANDER
914 AIRLIFT WING**

914 AIRLIFT WING INSTRUCTION 21-102

11 JANUARY 2016



Maintenance

**FUNCTIONAL CHECK FLIGHT
(FCF)/OPERATIONAL CHECK FLIGHT
(OCF) AND HIGH SPEED TAXI (HST)
CHECKS**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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(Col Dorneen W. Shipp)

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This instruction implements Air Force Policy Directive (AFPD) 21-1, *Maintenance of Military Materiel* and extends the guidance of Air Force Instruction (AFI) 21-101, Air Force Reserve Command (AFRC) Supplement 1, *Aircraft and Equipment Maintenance Management*, technical orders (TOs) 1-1-300, *Maintenance Operational Checks and Check Flights*, 1C-130E(H)-6CF-1 *Acceptance and Functional Check Flight Checklist*, 1C-130A-6, *Scheduled Inspection and Maintenance Requirements* and 00-20-1, AFRC Supplement 1, *Aerospace Equipment Maintenance Inspection, Documentation, Policies, and Procedures*. This instruction has been coordinated between the 914th Maintenance Group Commander (MXG/CC) and 914th Operations Group Commander (OG/CC); and provides a standard procedure for accomplishment of all aircraft FCF, OCF and HST check requirements. It applies to all 914th Airlift Wing (AW) personnel having duties involving FCF/OCF/HST checks. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the AF IMT Form 847, *Recommendation for Change of Publication*; route AF Form 847 to 914 MXG/MXQ. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with (IAW) Air Force Manual (AFMAN) 33-363, *Management of Records* and disposed of IAW Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS).

SUMMARY OF CHANGES

This publication has been substantially revised and must be reviewed in its entirety.

1. Definition:

1.1. FCFs occur after inspections, maintenance, or acceptance of aircraft to ensure the aircraft is airworthy and capable of accomplishing the mission. Requirements are IAW TO 1C-130A-6 or a decision exercised by MXG/CC.

1.2. OCFs are conducted after maintenance is performed to ensure aircraft mission specific equipment is operational and the aircraft is mission ready. It is preferred to conduct an OCF with an FCF certified aircrew, but can be accomplished with an experienced aircrew that will be approved by the OG/CC prior to each flight.

1.3. HST is a check that requires aircraft movement at higher than normal taxi speeds to operationally check completed maintenance. High speed taxi checks will be accomplished by an FCF certified aircrew.

2. Responsibilities:

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

2.2. The MXG/CC, through QA will coordinate requirement with the Operations Group OIC for all FCF/OCF/HST.

2.3. Production Superintendent informs Plans, Scheduling and Documentation (PS&D) of any FCF/OCF/HST. PS&D will then coordinate the FCF/OCF/HST with QA and OG/OIC to schedule the FCF/OCF/HST.

3. Procedures:

3.1. Referenced TO 1-1-300, FCF/OCF/HST will be conducted by the minimum aircrew required to perform check flight duties or accomplish in-flight requirements. FCF/OCF/HST will be accomplished without cargo and/or non-essential passengers. MXG/CC will coordinate with OG/CC if maintenance personnel are required to fly on Check Flights for trouble shooting.

3.2. After the preflight has been accomplished, the crew chief will provide QA with the current AFTO Form 781A, *Maintenance Discrepancy and Work Documentation*. QA will review the records to determine that the necessary maintenance and inspections have been accomplished and the required entries have been completed.

3.3. QA will review aircraft weight and balance documentation, (if applicable).

3.4. The Maintenance Operations Center (MOC) will notify QA when the aircraft is ready for the FCF/OCF/HST. PS&D will coordinate with the Operations Group OIC to schedule a crew. After the FCF/OCF/HST aircrew has been scheduled, PS&D will confirm the date and time with the MOC and QA.

4. FCF, OCF, HST Crew Briefs. The Aircraft Commander (AC) and QA will coordinate a time for the entire aircrew to report in order to review the aircraft forms and the planned flight profile. QA will brief the crew on items outlined in AFI 21-101, AFRC Sup 1 and maintenance discrepancies that are pertinent to the FCF/OCF/HST crew prior to release of the aircraft forms.

5. Control and Accomplishment of FCF/OCF/HST:

5.1. QA will determine the minimum TO 1C-130E(H)-6CL-1 FCF/OCF/HST checklist items and/or any special requirements to be accomplished in order to verify the aircraft system.

5.2. The minimum crew complement to conduct an OCF will be determined by the OG/CC and will be accomplished following the same maintenance criteria as FCFs.

5.3. Each crew member will carefully evaluate each FCF/OCF/HST checklist, TO 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 IAW TO 00-20-1, AFRC Sup 1. All discrepancies found must be annotated in the aircraft forms in detail to assist in the maintenance action. The MOC will assign a job control number (JCN) to discrepancies discovered during FCF/OCF/HST. If another FCF/OCF/HST attempt is required due to the failed FCF/OCF/HST a Work Event Separator (WES) will be used under the original QA JCN for subsequent FCF/OCF/HST attempts.

5.4. HST checks will only be accomplished with MXG/CC and OG/CC approval and are accomplished following FCF procedures.

6. Completion of the FCF/OCF/HST.

6.1. Upon completion of the FCF/OCF/HST, the aircrew, Production Superintendent, System(s) Specialist and MOC representative will report to QA to return the completed checklist, TO 1C-130E(H)-6CL-1, with the aircraft forms. QA will debrief the crew, review the checklist and aircraft forms for accuracy and ensure all required checklist items and AFTO forms have been properly documented by aircraft commander and crew members. If the AC determines that all aircraft systems have met the criteria in TO 1C-130E(H)-6CL-1, the AC will release the aircraft. Once the aircraft has been released, QA will then forward the checklist to PS&D to be filed in the aircraft document file. If the AC does not release the aircraft, maintenance and aircrew will discuss the discrepancies and the aircraft will be scheduled for another FCF/OCF/HST.

6.2. QA will review the AFTO Form 781As after corrective action has been documented to ensure the FCF/OCF/HST discrepancies are complete.

6.3. Aircraft disposition on completion of FCF/OCF/HST; in the event additional maintenance or flight checks are necessary, the aircraft will be returned to the responsible section (e.g., Flight Line, Inspection Section) through QA.

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

7. Transient Aircraft Requirements. The owning organization will provide the FCF/OCF/HST aircrew to accomplish the FCF/OCF/HST; otherwise all rules apply to the transient aircraft as it would to unit aircraft.

DANIEL J. SARACHENE, Colonel, USAFR
Commander

Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

AFPD 21-1, *Maintenance of Military Materiel*, 29 October 2015

AFI 21-101, *Aircraft and Equipment Maintenance Management*, 21 May 2015

AFMAN 33-363, *Management of Records*, 1 March 2008

TO 00-20-1, *Aerospace Equipment Maintenance Inspection, Documentation, Policies, and Procedures*, 15 October 2015

TO 1-1-300, *Maintenance Operational Checks and Check Flights*, 15 March 2012

TO 1C-130A-6, *Scheduled Inspection and Maintenance Requirements*, 15 May 2013

TO 1C-130E(H)-6CL-1, *Acceptance and/or Functional Check Flight Checklist*, 31 December 2005

Adopted Forms

AF Form 847, *Recommendation for Change of Publication*, 22 September 2009

AFTO Form 718A, *Maintenance Discrepancy and Work Document*, 11 July 2013

Abbreviations and Acronyms

AC —Aircraft Commander

AFI —Air Force Instruction

AFMAN —Air Force Manual

AFPD — Air Force Policy Directive

AFRC — Air Force Reserve Command

AFRIMS — Air Force Records Information Management System

AW — Airlift Wing

FCF — Functional Check Flight

HST — High Speed Taxi

IAW — In Accordance With

JCN — Job Control Number

MOC — Maintenance Operations Center

MXG/CC — Maintenance Group Commander

OCF — Operational Check Flight

OG/CC —Operations Group Commander

OIC — Officer in Charge

OPR — Office of Primary Responsibility

PS&D — Plans, Scheduling and Documentation

QA — Quality Assurance

RDS — Records Disposition Schedule

TO — Technical Order

WES — Work Event Separator