

**BY ORDER OF THE COMMANDER
908TH AIRLIFT WING**

908 AIRLIFT WING INSTRUCTION 21-103

13 JUNE 2012



Maintenance

**ACCEPTANCE/FUNCTIONAL CHECK
FLIGHT (ACF/FCF), OPERATIONAL
CHECKS FLIGHT (OCF) AND HIGH SPEED
TAXI CHECKS (HSTC)**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction implements AFPD 21-1, *Air and Space Maintenance*. It establishes policies and procedures for Acceptance/Functional Check Flights within the 908th Airlift Wing. It applies to all affected personnel within the 908th Maintenance Group and the 908th Operations Group, at Maxwell AFB, Alabama. This publication applies to all members assigned to the 908th Airlift Wing (AW). Refer recommended changes and questions about this publication to 908 MXG/MXG using the AF Form 847, *Recommendation for Change of Publication*; route AF Form 847s from the field through the appropriate functional chain of command. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with AFMAN 33-363, Management of Records, and disposed of in accordance with the Air Force Records Disposition Schedule (RDS) located at <https://www.my.af.mil/afirms/afirms/afirms/rims.cfm>.

SUMMARY OF CHANGES

This document is substantially revised and must be completely reviewed.

1. Responsibility. The 908th Maintenance Group Commander (MXG), 908th Operations Group Commander (OG), Aircrew, Quality Assurance (QA), Maintenance Operations Control (MOC), Debrief/Dispatch Section, and Maintenance Supervisors at all levels will ensure compliance with this instruction.

2. General:

2.1. Functional Check Flights (FCF), to include Operational Check Flights (OCF), are performed to ensure aircraft are airworthy and capable of accomplishing the mission. However, FCFs are not flown when a Maintenance Operational Check, prescribed by a technical directive, can determine the airworthiness of an aircraft. Requirements for FCFs, OCFs, and High Speed Taxi Checks (HSTC) will be done in accordance with T.O. 1-1-300, *Acceptance/Functional Check Flights and Maintenance Operational Checks*; and T.O. 1C-130A-6, *Aircraft Scheduled Inspection and Maintenance Instruction*, section 11, part C.

2.2. OCFs are defined as flights done to verify a maintenance condition or to provide additional information to maintenance when troubleshooting an aircrew identified discrepancy. OCF's will be flown by experienced aircrews and will be accomplished following the same criteria as FCF. OCFs will be flown only when it is not feasible to determine safe operations on the ground or when shop testing will not work.

2.3. HSTC is defined as a maintenance request for aircraft ground taxi operations at higher than normal taxi speeds. HSTCs will not be accomplished without MXG/OG Group Commander's authorization. Qualified FCF Aircrews will accomplish HSTCs. Aircraft will be configured with minimum fuel to minimize brake and tire wear. Aircrews will complete a take-off and landing data card to confirm that the allowable taxi speed still ensures actual refusal speed. The approved HST checklist/briefing (attachment 2) will be utilized prior to HSTC.

3. Procedures:

3.1. Maintenance Flight Chief/Supervisors will notify QA of all maintenance actions that require an ACF/FCF/OCF or HSTC.

3.2. QA will coordinate with the MOC regarding Estimated Time in Commission (ETIC), servicing, in-flight test requirements, and other factors pertinent to the ACF/FCF.

3.3. HSTCs will only be performed as a last resort measure, and will have the full authorization from the MXG/CC and OG/CC.

3.4. HSTCs will follow the same procedure as FCFs.

3.5. All pertinent data to include warning, cautions, and speeds for safe stopping distances will be included on the HSTC Briefing Checklist.

3.6. Ensure the aircraft has a current preflight inspection, is serviced with 30,000 pounds of fuel, (except HSTC) and an exceptional release accomplished

3.7. When the aircraft is in-commission, the Aircraft Maintenance Squadron (AMXS) Section will make available to QA all applicable records for review, to include engine performance run data when required.

3.8. When QA is satisfied that the ETIC will be met and the aircraft is ready for an FCF/OCF/HSTC, they will then coordinate scheduling and crew availability with Operations, and notify Debrief/Dispatch Section of the proposed take-off time and date.

3.9. ACF/FCF/OCF/HSTC crewmembers will report to the QA office 2+45 hours prior to take-off time in order to review mission requirements and brief items in T.O. 1-1-300 and 1C-130E(H)-6CF-1, *Acceptance/Functional Check Flight Procedures*.

3.10. Upon completion of the ACF/FCF/OCF/HSTC, the aircrew or individual crew members designated by the aircraft commander will report to the QA office or designated location with the AFTO Forms 781 Binder for debriefing.

3.11. QA will review the ACF/FCF/OCF/HSTC checklist and AFTO Forms 781 Binder to ensure all checks and entries have been made, and then will forward to the Documentation Section.

3.12. All accumulated documentation will be destroyed in accordance with in accordance with AFMAN 33-363, *Management of Records*.

BRETT J. CLARK, Colonel, USAFR
Commander

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

AFI 21-101_AFRC_SUP_I, *Aerospace Equipment Maintenance Management*

AFMAN 33-363, *Management of Record*

T.O. 1-1-300, *Acceptance/Functional Check Flights and Maintenance Operational Checks*

T.O. 1C-130E(H)-6CF-1, *Acceptance/Functional Check Flight Procedures*

T.O. 1C-130A-6, *Aircraft Scheduled Inspection and Maintenance Instructions*

Abbreviations and Acronyms

ETIC—Estimated Time in Commission

FCF—Functional Check Flight

HTSC—High Taxi Speed Check

MOC—Maintenance Operation Center

MOF—Maintenance Operations Flight

MXG—Maintenance Group

MXG—Air Force Instruction

OCF—Operational Check Flight

QA—Quality Assurance

OG—Operations Group

OCF—Operational Check Flight

MXS—Maintenance Squadron

T.O.—Air Force Technical Order

Attachment 2

FUNCTIONAL CHECK FLIGHT, OPERATIONAL CHECK FLIGHT, OR HIGH SPEED TAXI BRIEFING

		PAGE 1 of 1 PAGES		
FUNCTIONAL CHECK FLIGHT, OPERATIONAL CHECK FLIGHT, OR HIGH SPEED TAXI BRIEFING		OPR MXQ	DATE	
		Y	N	N/A
1. Aircraft Serial Number		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Aircraft Location _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Aircraft Fuel Load _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Purpose and extent of FCF/OCF or IIST		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a. Component/System Required to be checked:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Additional aircraft history if pertinent:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Document requirements for AFTO form 781 and FCF/OCF or HST Checklist		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. PR/FLT (date) _____ (time) _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. AFTO 781 Forms contents as followed:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ER:	781K:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TCTO:	781D:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TCI:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTI:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
781A:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. ACFT time: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>