

**BY ORDER OF THE COMMANDER
440TH AIRLIFT WING**

440 AIRLIFT WING INSTRUCTION 21-105

15 AUGUST 2012



Maintenance

**440 AW FUNCTIONAL/OPERATIONAL
CHECK FLIGHT / HIGH SPEED TAXI
CHECKS**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction implements Air Force Instruction (AFI) 21-101, Air Force Reserve Command (AFRC) Sup 1, *Aircraft and Equipment Maintenance Management* 8.19 "Functional Check Flights (FCF) and Technical Order (TO) 1-1-300, *Acceptance/Functional Check Flight and Maintenance Operational Checks* and the *Mission Design Series Dash 6 series TO*. It establishes guidelines, procedures and responsibilities for aircraft Functional Check Flight (FCF)/Operational Check Flight (OCF)/High Speed Taxi Checks (HSTC) program managers. The following procedures are to be implemented to ensure that FCF/OCF/HSTC actions are performed properly. This instruction applies to 440th Airlift Wing (440 AW) units responsible for the FCF/OCF/HSTC programs. 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/gcss-af61a/afirms/afirms/>. Additionally, if the publication generates a report(s), alert readers in a statement and cite all applicable Reports Control Numbers (RCN) in accordance with AFI 33-324. Refer any recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the AF Form 847, *Recommendation for Change of Publication*; directly to the 440MXG/MXQ, Pope AFB, NC.

SUMMARY OF CHANGES

This document is substantially revised; incorporating major changes review its entirety.

1. General: TO 1-1-300, *Acceptance/Functional Check Flight and Maintenance Operational Checks* and the Mission Design Series Dash 6 series TO contain conditions which necessitate an FCF/OCF.

2. Responsibilities:

2.1. The 440 MXG/CC and 440 OG/CC will ensure the FCF/OCF/HSTC program is managed as prescribed by AFI 21-101_AFRCSUP1, *Aircraft and Equipment Maintenance Management*.

2.2. The 440 MXQ program manager will:

2.2.1. Coordinate all FCFs/OCFs/HSTCs with the 440 OSS Current Operations, and 440OG/OGV, the 440 AMXS Production Supervision and Plans, Scheduling and Documentation (PS&D). Notification will generally be accomplished 48 hours prior to requested flight time.

2.2.2. Conduct a thorough review of the aircraft AFTO Form 781, *AFORMS Aircrew/Mission Flight Data Document*, series and Maintenance Information System (MIS) no later than 24 hours prior to the scheduled flight/taxi check. This will ensure accuracy of documentation, completion of required maintenance, inspections, correct fuel load, and aircraft configuration prior to aircrew briefing.

2.2.3. Annotate the AFTO 781A with applicable entries required for FCF flights IAW TO 00-20-1, *Aerospace Equipment Maintenance Inspection, Documentation, Policy and Procedures*.

2.3. 440 AMXS will:

2.3.1. Notify 440 MXQ immediately when there is an FCF/OCF/HSTC requirement.

2.3.2. Review all aircraft forms and MIS to ensure that all discrepancies are properly cleared, documented, or have parts ordered for open flyable discrepancies. Will ensure accuracy of documentation, completion of required maintenance, inspections, correct fuel load, and aircraft configuration.

2.3.3. Ensure aircraft forms and MIS are prepared and provided to MXQ for review no later than 24 hours prior to the scheduled flight.

2.3.4. Ensure the production superintendent attends flight crew briefing. Required specialist will be on hand to answer aircrew questions. The briefing will be held in building 738, 3 hours prior to scheduled take-off or as pre-coordinated. Mission essential ground personnel will accompany flight for specific maintenance profiling and/or observation which cannot be duplicated on the ground.

2.3.5. Ensure required maintenance personnel attend debrief.

2.4. 440 OSS/440 OGV will accomplish applicable procedures outlined in 440 OGV Operational Procedures.

3. Operational Check Flight:

3.1. OCFs will be accomplished following the same maintenance criteria as FCFs.

4. High Speed Taxi Checks.

- 4.1. HSTC will be accomplished following the same maintenance criteria as FCFs.
- 4.2. HSTC may be utilized instead of FCFs with 440 MXG/CC and 440 OG/CC authorizations, when a maintenance ground operational check requires aircraft movement at higher than normal taxi speeds to operationally check completed maintenance.
- 4.3. HSTC will be accomplished only with qualified FCF crews.

NORMAN R. HAM, JR., Brig Gen, USAFR
Commander

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

AFI 21-101 AFRC Sup 1, *Aircraft and Equipment Maintenance Management*, 13 January 2011

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

TO 00-20-1, *Aerospace Equipment Maintenance Inspection, Documentation, Policy and Procedures*, 15 June 2011

TO 1-1-300, *Acceptance/Functional Check Flight and Maintenance Operational Checks*, 14 November 2007

TO 1C-130A-6, *Aircraft Scheduled Inspection and Maintenance Instructions*, 1 December 2010

Adopted Forms

AF Form 847, *Recommendation for Change of Publications*

AFTO Form 781, *AFORMS Aircrew/Mission Flight Data Document*

AFTO Form 781A, *Maintenance Discrepancy and Work Document*

Abbreviations and Acronyms

AFI—Air Force Instruction

AFMAN—Air Force Manual

AFRC—Air Force Reserve Command

AFTO—Air Force Technical Order

AS—Aerospace Squadron

CC—Commander

FCF—Functional Check Flight

HSTC—High Speed Taxi Checks

MXG—Maintenance Group

NCOIC—Non-Commissioned Office In Charge

OCF—Operational Check Flight

OG—Operations Group

OPR—Office of Primary Responsibility

OSS—Operations Support Squadron

PS&D—Plans, Scheduling and Documentation

QA—Quality Assurance

RCN—Reports Control Number

RDS—Records Disposition Schedule

TO—Technical Order