

**BY ORDER OF THE COMMANDER
919TH SPECIAL OPERATIONS WING**

**919TH SPECIAL OPERATIONS WING
INSTRUCTION 21-102**



13 APRIL 2015

Maintenance

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

COMPLIANCE WITH THE PUBLICATION IS MANDATORY

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This instruction implements Air Force Policy Directive (AFPD) 21-1, *Air and Space Maintenance*. This instruction extends the guidance of Air Force Instruction (AFI) 21-101, *Aircraft and Equipment Maintenance Management*, Air Force Reserve Command (AFRC) Supplement (SUP). It establishes and outlines procedures for performing acceptance/functional check flights (ACF). It applies to the 919th Special Operations Maintenance Group (919 SOMXG) and 592th Special Operations Maintenance Squadron (MXS) personnel and aircrew members in the 919th Special Operations Group (919 SOG) and 6 Special Operations Squadron (SOS). Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the Air Force Information Management Tool (AF IMT) 847, *Recommendation for Change of Publication*; route the AF IMT 847s from the wing through your publications/forms manager. Ensure all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Manual (AFMAN) 33-363, *Management of Records*, and dispose of in accordance with the Air Force Records Disposition Schedule (RDS) located at <https://afrims.amc.af.mil/>.

SUMMARY OF CHANGES

This revision redefines High Speed Taxi, (HST) and clarifies scheduling and execution of FCF/OCF/HSTs. New squadrons added and paragraphs were removed and renumbered for minor administrative corrections.

1. Functional Check Flights (FCF)/Operational Check Flight (OCF)/High Speed Taxi (HST) definitions:

1.1. FCFs are performed to ensure an aircraft is airworthy and capable of accomplishing its mission. FCFs will be flown by FCF qualified aircrew members as required by applicable technical orders or as directed by the 919 SOMXG Group Commander (CC).

1.2. OCFs are defined as flights to determine safe or required operation when it cannot be accomplished by means of ground or shop tests. OCFs will be flown by qualified aircrew members when an operational check is required by applicable technical orders or when maintenance has been performed that does not require an FCF.

1.3. HST checks may be utilized in-accordance with Technical Order (TO) 1-1-300, *Acceptance / Functional Check Flight and Maintenance Operational Checks*, when a maintenance ground operational check requires aircraft movement at higher than normal taxi speeds; on runway to operationally check completed maintenance or for troubleshooting purposes.

1.3.1. HST checks are an item on the C-145A FCF checklist, and will be treated as an FCF.

1.3.2. To minimize brake and tire wear for HST's, configure aircraft with minimum fuel requirements, approximately 800lbs, unless otherwise directed by FCF crew.

2. Check Flights and Taxi Check. The 919 SOMXG Plans and Scheduling section schedules the FCF/OCF with the 919th Special Operations Support Squadron (919 SOSS/OSO), and notifies 919th Special Operations Group/Standardization Evaluation (919 SOG/OGV).

2.1. 919 SOMXG Quality Assurance (QA) supervises the FCF program, reports on any trends shown by FCF histories, and provides FCF checklists and procedures manual to the aircrew. 919 SOG/OGV will maintain a list of qualified FCF aircrew members, and will ensure all FCF aircrews are qualified to perform the scheduled FCF/OCF.

2.2. FCF/OCF Crew Composition. Structure of the flight crew is as shown in T.O. 1-1-300 and may be changed to include specialists needed to perform or observe in-flight checks. Maintenance personnel who are to fly on the FCF must contact 919 SOSS/OSO to initiate supporting forces letter.

2.2.1. HST crew composition will consist of qualified FCF members.

2.2.2. Loadmasters are required, if directed by Operation Test Flight Program, for C-145A FCFs.

2.3. All FCF/OCF air work will be flown in Visual Meteorological Conditions (VMC), in airspace that requires minimal Air Traffic Control (ATC) traffic handling. Examples include working East-West North of the Eglin Military Operating Area (MOA), or working North-South between Bob Sikes Airport (CEW) and Montgomery Regional Airport (MGM). Stall approach and recovery will be done at a minimum of 5000 feet above ground level (AGL) or 5000 feet above clouds if there is a scattered or ceiling layer.

2.4. See TO 1-1-300, paragraph 4.9. for governing directives in relation to combining training missions with FCF/OCF's.

3. Scheduling of FCF/OCF/HST Checks. The 919 SOMXG production superintendent coordinates with QA, 919 SOMXG Plans and Scheduling when an aircraft requires an FCF/OCF/HST. The Plans and Scheduling section coordinates with 919 SOSS/OSO to set up date and time for the flight and will notify 919 SOG/OGV once it is known when the aircraft will be ready.

4. Preparation of Aircraft Maintenance Records and Briefing Prior to FCF/OCF/HST. The crew chief provides QA office with the current maintenance record, Air Force Technical Order (AFTO) Forms 781A, *Maintenance Discrepancy and Work Document*, and binder when all maintenance has been completed, including the maintenance preflight Inspection and the exceptional release. QA office reviews the records to see that all entries or transcriptions are completed. Transcribed forms accompany the aircraft AFTO Form 781A to QA office so the discrepancy resulting in the FCF/OCF and corrective action will be available for review.

4.1. **Crew Briefing.** QA office briefs crewmembers prior to flight on what is significant to the FCF/OCF/HST and any special information. Complete crew briefing at one time, if possible, but loadmaster preflight, etc, may dictate individual briefing. This briefing is conducted in the QA office, unless situation dictates otherwise.

4.2. **Crew Debriefing.** QA office debriefs crewmembers after flight. QA will ensure all checklists and forms are completed by aircrew prior to release. Aircrew must return to QA for debrief after FCF/OCF/HST is completed. This does not pertain to aircraft being flown to validate primary aircraft systems as defined in TO 1-1-300, paragraph 4.1. This briefing is conducted in the QA office, unless situation dictates otherwise.

5. Controls and Accomplishment of AFTO Form 781A and FCF/OCF Checklist.

5.1. When FCF/OCF/HST's performed include checking specific equipment of systems; only applicable parts of the checklist are required to be used. QA indicates during briefing which sections of the checklist are applicable for the FCF/OCF/HST.

5.2. Whether the FCF/OCF/HST is completed or not, the checklist and aircraft AFTO Forms 781A are returned immediately by the crew to the debriefing area. QA office assists in debriefing the crew and determines if all requirements were accomplished. QA office checks the checklist and the aircraft AFTO Forms 781A for accuracy and ensures all other required forms have been completed and signed.

5.3. When an aircraft has been released, QA forwards the checklist to plans and scheduling for filing.

JAMES M. PHILLIPS, Col, USAFR
Commander

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

AFPD 21-1, *Air and Space Maintenance*, 25 February 2003

AFRC 21-101, AFRC SUP, *Aircraft and Equipment Maintenance Management*, 13 January 2011, Incorporating Change 1, 26 April 2013

AFI 21-101, AFSOC SUP, *Aircraft and Equipment Maintenance Management*, 5 October 2011

AFMAN 33-363, *Management of Records*, 01 Mar 2008

TO 1-1-300, *Acceptance/Functional Check Flight and Maintenance Operational Checks*, 15 March 2012

Adopted Forms

AF IMT 847, *Recommendation for Change of Publication*

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

Abbreviations and Acronyms

ACF—Acceptance Check Flight

AF—Air Force

AFI—Air Force Instruction

AFMAN—Air Force Manual

AFPD—Air Force Policy Directive

AFRC—Air Force Reserve Command

AFTO—Air Force Technical Order

AGL—Above Ground Level

ATC—Air Traffic Control

CC—Commander

CEW—Bob Sikes Airport Crestview, FL

FCF—Functional Check Flight

HST—High Speed Taxi

IAW—In Accordance With

IMT—Information Management Tool

MGM—ICAO airfield Montgomery Regional Airport Montgomery, AL

MOA—Military Operating Area

MOC—Maintenance Operations

MOF—Maintenance Operations Center

MXG—Maintenance Group

MXS—Maintenance Squadron

OCF—Operational Check Flight

OG—Operation Group

OGV—Standardization Evaluation

OPR—Office of Primary Responsibility

OSO—Operations Support

OSS—Operations Support Squadron

QA—Quality Assurance

RDS—Records Disposition Schedule

SOG—Special Operations Group

SOMXG—Special Operations Maintenance Group

SOSS—Special Operations Support Squadron

SOS—Special Operations Squadron

SUP—Supplement

TO—Technical Order

VMC—Visual Meteorological Conditions