



DEPARTMENT OF THE NAVY

COMMANDING OFFICER
TRAINING SQUADRON TWENTY-SEVEN (VT-27)
411 BATAAN ST SUITE A
CORPUS CHRISTI TX 78419-5245

VT-27INST 3700.1R

16 MAR 2011

TRAINING SQUADRON TWENTY-SEVEN INSTRUCTION 3700.1R

Subj: FUNCTIONAL CHECK FLIGHTS

Ref: (a) COMNAVAIRFORINST 4790.2A
(b) OPNAVINST 3710.7U
(c) NAVAIR 01-T34AAC-1
(d) COMTRAWINGFOURINST 3710.11J

Encl: (1) T-34C Functional Check Pilot (FCP) Syllabus
(2) FCP Designation Letter

1. Purpose. To establish policy for Functional Check Flights (FCF), Functional Check Pilot (FCP) designations, amplify guiding instruction, and assign responsibilities.

2. Cancellation. VT-27INST 3700.1Q

3. Discussion. FCFs are required to determine whether the airframe, power plant, accessories, and items of equipment are functioning in accordance with predetermined requirements while subjected to the intended operating environment. FCFs shall be flown as required by reference (a) or at such other times as directed by the Commanding Officer.

4. Responsibilities

a. Squadron Maintenance Liaison Officer (MLO)

(1) Administer the squadron FCF program per references (a) through (d) and this instruction.

(2) Submit recommended T-34C FCF procedure changes to the appropriate authority.

(3) Ensure FCPs are designated in writing by Commanding Officer, Training Squadron TWENTY-SEVEN upon successful completion of the FCF training syllabus.

(4) Ensure standardization and quality of FCFs by conducting quarterly meetings to review procedures, techniques, and pertinent information with FCPs.

(5) Submit FCPs names to the Standardization Officer upon qualification completion for inclusion on the Squadron Qualification matrix.

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b. Squadron FCPs

(1) Be familiar with all information pertaining to T-34C FCFs as outlined in references (a) through (d) and this instruction.

(2) Conduct all FCFs in accordance with reference (a) through (d) and this instruction.

(3) Submit any recommended changes to the squadron FCF program or T-34C FCF procedures to the Squadron MLO.

5. Policy

a. Crew Composition

(1) Functional check flights shall be conducted by a Pilot-in-Command designated in writing by the Commanding Officer as a Functional Check Pilot (FCP).

(2) T-34C FCFs may utilize a co-pilot. The minimum qualifications for a co-pilot shall be either a winged aviator or student aviator with a current T-34C Bailout, R-2 Water Survival and RP-2 Aviation Physiology qualifications.

b. FCP Qualifications

(1) NATOPS qualified and designated as T-34C Pilot-in-Command.

(2) 250 hours in T-34C (may be waived by the Commanding Officer).

(3) Complete FCP syllabus in accordance with enclosure (1) and reference (d).

(4) Designated in writing by the Commanding Officer.

c. Conduct of Flights

(1) Per reference (b), FCFs shall be flown only during daylight hours in Visual Meteorological Conditions (VMC) under visual flight rules for the entire flight, maintaining ground reference. In addition, during profiles "A" or "B" a VMC descent to a high key position at suitable paved field must be attainable at all times. FCF profiles shall not be conducted in Visual Flight Rules (VFR) on top conditions.

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(2) Due to the increased probability of engine failure, card profiles "A" and "B" shall use the longest available runway in use and utilize one of two different maintenance climbs to low key. At low key report "OPS NORMAL" and continue to a high key position to enhance safety of flight. Profiles should normally be flown utilizing a "reserve deck"; this requirement may be waived at the FCPs discretion. Both maintenance climbs will be introduced during the FCP qualification process.

(3) Upon completion of FCF card profile "A" or "B", the aircraft shall land and the respective aircraft component inspected prior to commencing any further flight operations.

(4) "Test-and-go" FCFs are authorized for card profiles "C" and "D" only. The Mission Essential Subsystem Matrix (MESM) shall be used to determine aircraft eligibility to continue the operational training flight. The Pilot-in-Command shall ensure that the ODO is informed of the FCF completion prior to commencing any training flight. A "touch-and-go" landing is not required prior to executing the training event. One WINFLIR with two mission codes shall be completed to satisfy flight hour accounting requirements.

d. Designation. Once a pilot has a signed FCP designation letter or is placed upon an approved Squadron qualification matrix, they may perform the duties of an FCP. The intent is not to withhold necessary flight operations for lack of paperwork where pilots have been designated by the Commanding Officer.

e. Proficiency/Currency. FCPs shall fly at least one full card FCF within the last 90 days to remain current and qualified to fly FCFs. If 90 days has elapsed from last FCF, FCPs must fly an FCF or FCF profile with a current FCP to regain currency.


D. G. CASE

Distribution:
VT-27INST 5216.2H

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T-34C FUNCTIONAL CHECK PILOT (FCP) SYLLABUS

RANK/NAME: _____ SSN: _____
 TOTAL PILOT HRS: _____ TOTAL MODEL HRS: _____

<u>REQUIRED READING</u>	<u>DATE</u>	<u>INITIALS</u>
1. OPNAVINST 3710.7U (Ch. 3, Sec. 3.8)	_____	_____
2. COMNAVAIRFORINST 4790.2A	_____	_____
3. NAVAIR 01-T34AAC-1	_____	_____
4. COMTRAWINGFOURINST 3710.11J	_____	_____
5. VT-27INST 3700.1Q FCF INSTRUCTION	_____	_____
6. WRITTEN FCF EXAM	_____	_____

REQUIRED FLIGHTS

FCF-1: Discuss:	QA brief w/maint contractor	_____	_____
	Post depot level maint FCFs	_____	_____
Demo:	FCF preflight inspection	_____	_____
	"A" card profile FCF	_____	_____
	FCF post flight inspection	_____	_____
FCF-2: Introduce:	FCF preflight inspection	_____	_____
	"B" card profile FCF	_____	_____
	FCF post flight inspection	_____	_____
FCF-3: Practice:	FCF preflight inspection	_____	_____
	"C" card profile FCF	_____	_____
	FCF post flight inspection	_____	_____
FCF-4X: Review:	FCF preflight inspection	_____	_____
	"D" card profile FCF	_____	_____
	FCF post flight inspection	_____	_____

COMMANDING OFFICER'S DESIGNATION _____

Note: Profile flights may be combined as one flight. For example, FCF-1 and FCF-2 may be combined as one flight. A minimum of two flights shall be flown.

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FUNCTIONAL CHECK PILOT DESIGNATION LETTER

From: Commanding Officer, Training Squadron TWENTY-SEVEN
To:

Subj: DESIGNATION AS T-34C NATOPS FUNCTIONAL CHECK PILOT

Ref: (a) COMNAVAIRFORINST 4790.2A
(b) OPNAVINST 3710.7U
(c) NAVAIR 01-T34AAC-1
(d) COMTRAWINGFOURINST 3710.11J

1. Having demonstrated exceptional performance, knowledge and air sense, and having successfully completed all requirements per references (a) through (d), you are hereby designated a T-34C NATOPS Functional Check Pilot.

2. This designation shall be entered in your NATOPS Flight Personnel Training and Qualification Jacket.

CO SIGNATURE

Copy to:
Aviators log book
NATOPS Jacket
Training

Enclosure (2)