



## DEPARTMENT OF THE NAVY

TRAINING AIR WING ONE MERIDIAN MS 39309  
TRAINING AIR WING TWO KINGSVILLE TX 78363  
TRAINING AIR WING SIX PENSACOLA FL 32508

COMTRAWINGONEINST 3710.3D  
COMTRAWINGTWOINST 4730.1N  
COMTRAWINGSIXINST 3710.3B

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13 Feb 12

COMTRAWING ONE INSTRUCTION 3710.3D  
COMTRAWING TWO INSTRUCTION 4730.1N  
COMTRAWING SIX INSTRUCTION 3710.3B

From: Commander, Training Air Wing ONE  
Commander, Training Air Wing TWO  
Commander, Training Air Wing SIX

Subj: T-45A/C FUNCTIONAL CHECK FLIGHT (FCF) PROGRAM

Ref: (a) OPNAVINST 4790.2 (Series)  
(b) OPNAVINST 3710.7 (Series)  
(c) NAVAIR A1-T45AB-NFM-000  
(d) NAVAIR A1-T45AB-NFM-700  
(e) NAVAIR A1-T45AC-NFM-000  
(f) NAVAIR A1-T45AC-NFM-700  
(g) CNATRAINST 3710.13 (Series)  
(h) CLS Performance Work Statement

Encl: (1) FCF Pilot Training Request  
(2) Sample FCF Pilot Designation Letter  
(3) FCF Training Summary

1. Purpose. To publish FCF policy and program administration of FCFs in Training Air Wings ONE, TWO, and SIX (TW-1, TW-2, TW-6).

2. Cancellation. COMTRAWINGONEINST 3710.3C, COMTRAWINGTWOINST 4730.1M, COMTRAWINGSIXINST 3710.3A

3. Background. FCFs are used to determine whether aircraft, airframes, power plants, accessories, and items of equipment are functioning properly while subjected to the intended operating environment. The FCF has two important and distinct purposes:

- a. To determine if an aircraft is safe for flight and mission capable.
- b. To accurately evaluate the quality of maintenance performed.

4. Action. General instructions for the conduct of FCFs are contained in references (a) and (b). Specific instructions are contained in reference (c) through (f), and the “FCF Procedures” section of this instruction. All profiles shall be accomplished in accordance with references (a) through

(h) and this instruction. With Wing Commander approval, “pro-and-go” FCFs may be flown for “C”, “D”, or “E” or “F” profiles in support of logistic and syllabus flights. An FCF checklist, reference (d), (f), or as appropriate, shall be utilized for each flight completing all items designated by letter for the profile to be flown.

5. FCF Flight Qualifications. In addition to the requirements in references (a) through (f), the following minimum requirements shall be met prior to receiving training and designation as a FCF Pilot:

a. T-45A/C Aircraft

(1) 1500 hours total military pilot time

(2) T-45A/C hours

(a) 500 T-45 hours, or

(b) 300 T-45 hours with prior FCF Qualification (SNA T-45 flight hours do not count).

(3) T-45A and/or T-45C NATOPS qualified.

(4) Recommended by cognizant Training Air Wing Commander.

6. FCF Training. The cognizant Wing FCF Program Manager will monitor and document the following minimum required FCF pilot training via enclosure (2) :

a. T-45A/C (All profiles)

(1) T-45 FCF standardization brief with the cognizant Wing FCF Program Manager (prior to training flights).

(2) Cognizant Wing FCF written examination.

(3) FCF “A” profile simulator conducted by an FCF standardization pilot (prior to training flights).

(4) Two “A” profile flights (may be performed on actual FCF sorties):

(a) One, as an observer in the rear cockpit.

(b) One, as the pilot at the controls in the front cockpit, with an FCF standardization pilot.

7. FCF Pilot Designation. Upon completion of the training outlined in paragraph 6, FCF pilots will be designated by their cognizant Training Air Wing Commander using enclosure (3).

8. Waivers. Flight time and FCF training requirements listed in paragraphs 5 and 6 above may be waived when deemed appropriate by the cognizant Training Air Wing Commander.

9. FCF Procedures

a. Check flights shall normally be conducted with the “minimum crew required.” A second crewmember may be used in situations such as FCF Instructor Under Training (IUT) flights, rear cockpit gauges/systems check requirements, or as rear cockpit observers for FCF experience. SNA’S are not allowed to fly in an FCF. Only designated FCF pilots and FCF IUT pilots may fly in the front seat of an FCF.

b. Each pilot performing an FCF shall obtain a thorough briefing by appropriate Quality Control (QC) work center personnel. The briefing shall describe maintenance performed, requirements for that particular flight, and expected results.

c. Per reference (b), “FCFs should be conducted during daylight hours within the local flying area in VMC. If necessary to accomplish the assigned mission, unit commanders may authorize checkflights under conditions other than the above if in their opinion the flight can be conducted with an acceptable margin of safety under the existing conditions. This authority shall not be delegated. Those portions of the flights that are considered critical shall be conducted in the vicinity of a suitable landing area.” All checklist items shall be conducted in VMC.

d. Applicable portions of the FCF checklist shall be completed during the flight. The completed checklist shall be thoroughly debriefed with, and turned in to QC.

e. An incomplete FCF may be re-flown with a checklist tailored by QC, deleting items previously completed, provided the flight is flown by the FCF pilot who originally incompleting the FCF. If the FCF is re-flown by another pilot, the entire profile shall be completed.

10. Currency

a. Without prior approval of the Wing Commander, an FCF shall not be the first flight of a pilot who has not flown a T-45 in more than 14 days.

b. If a pilot has not flown a FCF in more than 90 days, a refresher FCF flight (A, B, or C profile) with an FCF stan pilot shall be flown.

c. Pilots must complete annual FCF standardization exam within 60 days prior to their annual qualification anniversary.

## 11. Responsibilities

### a. Squadron Commanding Officers:

(1) Recommend pilots for FCF training who meet requirements and have demonstrated appropriate maturity and judgment.

### b. Wing FCF Program Manager:

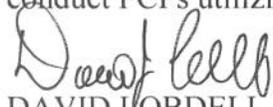
(1) Administer the wing FCF program and ensure the proper training of all FCF pilots.

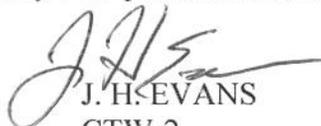
(2) Monitor the effectiveness of the FCF program and recommend changes as necessary to improve standardization, efficiency and safety.

(3) Ensure proper documentation of all FCF training.

(4) Ensure proper scheduling of all FCF training.

c. Primary responsibility for conducting FCFs resides with the aircraft maintenance contractor, per reference (h). However, the cognizant Training Wing reserves the right to conduct FCFs utilizing military FCF pilots as it deems necessary.

  
DAVID LOBDELL  
CTW-1

  
J. H. EVANS  
CTW-2

  
JOHN R. RODRIGUEZ  
CTW-6

### Distribution:

Electronic only, via TRAWING ONE website:

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COMTRAWINGTWOINST 4730.1L  
COMTRAWINGSIXINST 3710.3A

COMTRAWINGONEINST 3710.3D  
COMTRAWINGTWOINST 4730.1N  
COMTRAWINGSIXINST 3710.3B  
13 Feb 12

FCF PILOT TRAINING REQUEST

From: Commanding Officer, Training Squadron \_\_\_\_\_  
To: Commander, Training Air Wing \_\_\_\_\_  
Via: FCF Program Manager, Training Air Wing \_\_\_\_\_

Subj: REQUEST FUNCTIONAL CHECK FLIGHT PILOT TRAINING

Ref: (a) COMTRAWINGONEINST 3710.3C / COMTRAWINGTWOINST 4730.1M/  
COMTRAWINGSIXINST 3710.3A

1. Per reference (a), \_\_\_\_\_ is recommended for training as a T-45  
\_\_\_\_(A/C) Functional Check Flight pilot.
2. The individual listed above meets all requirements in reference (a) and has received  
recommendation from the squadron Advanced Qualification Board (AQB).
3. The following amplifying information is provided:
  - a. Total military flight hours: \_\_\_\_\_
  - b. Fleet aircraft / FCF qualified? \_\_\_\_/\_\_\_\_
  - c. T-45C flight hours: \_\_\_\_/\_\_\_\_
  - d. Projected Rotation Date: \_\_\_\_\_

\_\_\_\_\_  
Commanding Officer Signature

Ser

FIRST ENDORSEMENT

From: Commander, Training Air Wing \_\_\_\_\_  
To: FCF Program Manager, Training Air Wing \_\_\_\_\_

Subj: REQUEST FOR FUNCTIONAL CHECK FLIGHT PILOT DESIGNATION

1. Delivered, approved/ disapproved.

\_\_\_\_\_  
COMTRAWING Signature (date)

Copy to:  
CO (Respective SQDN)  
SQDN Stan  
Wing FCF Program Manager

Enclosure (1)

COMTRAWINGONEINST 3710.3D  
COMTRAWINGONEINST 4730.1N  
COMTRAWINGSIXINST 3710.3B  
13 Feb 12

SAMPLE FCF PILOT DESIGNATION LETTER

1210  
Ser 00/

From: Commander, Training Air Wing ONE  
To: RANK Name A. Pilot, USN, XXX-XX-6789/131X  
Via: Commanding Officer, Training Squadron \_\_\_\_\_

Subj: DESIGNATION AS A FUNCTIONAL CHECK FLIGHT (FCF) PILOT

Ref: (a) OPNAVINST 4790.2.7 (Series)  
(b) OPNAVINST 3710.7 (Series)  
(c) NAVAIR A1-T45AB-NFM-000  
(d) NAVAIR A1-T45AB-NFM-700  
(e) NAVAIR A1-T45AC-NFM-000  
(f) NAVAIR A1-T45AC-NFM-700  
(g) CNATRAINST 3710.13 (series)

1. Effective this date, you are hereby designated a FCF Pilot for the T-45\_\_ (A/C) aircraft.
2. You shall perform your duties in accordance with references (a) through (g) and other pertinent directives.
3. This designation will remain in effect until you are relieved or upon your detachment.

I. M. COMMODORE

Copy to:  
TW-1 (FCF Program Manager)  
TRARON \_\_\_\_\_  
TRARON \_\_\_\_\_ Safety (NATOPS Training Jacket)  
TRARON \_\_\_\_\_ Stan (Instructor Training Jacket)

"FOR OFFICIAL USE ONLY - PRIVACY ACT SENSITIVE: Any misuse or unauthorized disclosure of this information may result in both criminal and civil penalties."

Enclosure (2)

SAMPLE FCF PILOT TRAINING SUMMARY

IUT:

Name \_\_\_\_\_ Rank \_\_\_\_\_ SSN \_\_\_\_\_  
(Last, First MI) (Last 4)

1. Aircraft Type (circle one or both): T-45A / T-45C
2. FCF Standardization Brief (Wing FCF Program Manager).

Date \_\_\_\_\_

3. FCF Written Examination

Date \_\_\_\_\_ Score \_\_\_\_\_

4. FCF "A" Profile Simulator.

Date \_\_\_\_\_ Instructor \_\_\_\_\_ (S)\*

5. Training Profile Flights: (min 2 required)

Date:	Seat:	Instructor:	Profile:
_____	REAR	_____	"A"
_____	FRONT	_____	"A"

6. Total Flight Hours: \_\_\_\_\_ (1500 min)
7. Total T-45A/C Hours: \_\_\_\_\_ (500 min; 300 if fleet FCF qual)

\*Note: The simulator and the front seat check flight must be flown with an FCF standardization pilot.

Routing:  
WING FCF \_\_\_\_\_  
CSO \_\_\_\_\_  
COMMODORE \_\_\_\_\_