



DEPARTMENT OF THE NAVY
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OPNAVINST 3501.338B
N2/N6
16 Oct 2014

OPNAV INSTRUCTION 3501.338B

From: Chief of Naval Operations

Subj: REQUIRED OPERATIONAL CAPABILITY AND PROJECTED OPERATIONAL ENVIRONMENT STATEMENTS FOR FLEET AIR RECONNAISSANCE SQUADRON SEVEN (VQ-7)

Ref: (a) OPNAVINST C3501.2K (NOTAL)
(b) OPNAVINST 1000.16K
(c) NAVAIRNOTE 13100 of 21 Aug 12
(d) VQ-7 FY14 WEBPPF Production Planning Factors

Encl: (1) Projected Operational Environment Statement for Fleet Air Reconnaissance Squadron SEVEN Fleet Replacement Squadron
(2) Required Operational Capabilities Statement for Fleet Air Reconnaissance Squadron SEVEN Fleet Replacement Squadron

1. Purpose. To issue revised required operational capabilities (ROC) and projected operational environment (POE) statements for Fleet Air Reconnaissance Squadron SEVEN (VQ-7). This instruction is a complete revision and should be reviewed in its entirety.

2. Cancellation. OPNAVINST C3501.338A.

3. Discussion. Per references (a) and (b), enclosures (1) and (2) with references (c) and (d) have been prepared. The ROC and POE describe the mission areas, environment, and operational capabilities for which the VQ-7 is configured. This instruction provides resource agencies with information concerning VQ-7 mission requirements, capabilities, and the types and locations of expected operations. Together, the ROC and POE establish tasking which produces measureable workload used to compute personnel requirements for squadron manpower documents (SQMD).

4. Action. Commanders are directed to review enclosures (1) and (2) biennially and submit changes to the Deputy Chief of Naval Operations, Information Dominance (OPNAV N2/N6) and the Chief of Naval Operations, Air Warfare Division (OPNAV N98) as appropriate when capabilities of VQ-7 are significantly altered by introduction or deletion of systems or changes in the operating and/or training profiles. Change recommendations should include comments on the expected SQMD impact.

5. Point of Contact. E-6B Requirements Officer, OPNAV N2/N6F11, (703) 695-8018.

6. Records Management. Records created as a result of this instruction, regardless of media and format, shall be managed per Secretary of the Navy Manual 5210.1 of January 2012.



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PROJECTED OPERATIONAL ENVIRONMENT STATEMENT FOR
FLEET AIR RECONNAISSANCE SQUADRON SEVEN

1. VQ-7 operates as a single-site Fleet Replacement Squadron (FRS) from a fixed base at Tinker Air Force Base, OK.
2. Operating environment:
 - a. Provide ground, simulator, and in-flight training for all fleet replacement E-6 aircrew personnel, to include in-flight refueling training.
 - b. Provide initial, upgrade, currency, and refresher training to E-6 aircrews.
 - c. Provide augment personnel to support fleet operations in wartime and during major exercises.
 - d. Perform all assigned primary missions simultaneously within the capability of augmented Fleet Air Reconnaissance Squadron THREE (VQ-3) and Fleet Air Reconnaissance Squadron FOUR (VQ-4) aircraft.
3. Primary Training Aircraft Authorized. None. VQ-7 utilizes fleet E-6 aircraft assigned to and maintained by VQ-3 and VQ-4 to provide 1,317 annual flight hours in support of FRS production.
4. Aircraft Utilization Rate. For current aircraft utilization rates refer to reference (c).

Table 4-1 - Average Hours per Sortie

Model Aircraft Assigned	Average Hours per Sortie				
	FY-12	FY-13	FY-14	FY-15	FY-16
E-6 (Fleet Asset)	5.0	5.0	5.0	5.0	5.0

Table 4-2 - Flight Crew Requirements

Aircraft Model	Instructor Pilots Per Crew	Flight Engineer Instructors Per Crew	Observers Per Crew
E-6	1	1	1

Table 4-3 - Mission Flight Crew Requirements

Mission Positions (abbreviation)		Desig/NEC
Instructor Pilot	IP	1310
Instructor Airborne Communications Officer	ACO-I	1320
Instructor Flight Engineer	FE-I	8235
Instructor In-flight Technician	IFT-I	8229
Instructor Reel Operator	RO-I	8227

5. Navy standard workweek for enlisted personnel as applicable per reference (b). Planned flying day is 16 hours, six days per week.

NOTE: For paragraphs 6 through 8 below, refer to the current FRS production planning factors (PPF) for the fiscal year in question. PPFs are submitted annually by the FRS to Commander, Naval Air Force Pacific/Atlantic. Reference (d) documents PPF for VQ-7. Copies can be obtained from Commander, Naval Air Force Pacific/Atlantic.

6. Training Load. Refer to current FRS PPF.

7. Readiness Training Summary. Refer to current FRS PPF.

8. Total simulator hours required. Refer to current FRS PPF.

9. Approved additional tasking imposed by higher authority includes model manager for E-6 and crew resource management program.

REQUIRED OPERATIONAL CAPABILITIES STATEMENT FOR
FLEET AIR RECONNAISSANCE SQUADRON SEVEN
FLEET REPLACEMENT SQUADRON

1. Mission. The squadron's mission is to indoctrinate and train fleet replacement E-6 aircrews to perform the ROC of both VQ-3 and VQ-4, using fleet provided E-6 aircraft. Provide recurrent, upgrade, and post-FRS training for E-6 aircrews. Maintain Fleet Air Reconnaissance Squadron ROC qualifications of FRS instructor personnel. Provide standardization and model manager functions for E-6 aircraft and training. Provide support during higher Defense Readiness Conditions (DEFCON) when directed by higher authority. Accordingly, the following primary and secondary warfare mission areas are assigned:

Table 1-1 - Primary (P) and Secondary (S) Warfare Mission Areas

CCC	FSO	NCO
S	P	S

Note - The following acronyms apply to above mission areas table:

- a. CCC. Command, control, and communications.
- b. FSO. Fleet support operations.
- c. NCO. Non-combat operations.
- d. P. Primary.
- e. S. Secondary.

2. ROCs are reported under readiness conditions having major significance in determining the unit's total manpower requirements. The following summarizes readiness conditions covered:

- a. Readiness State I: Full Readiness:

(1) Maximum force readiness. While in readiness state I, the squadron shall be able to perform all primary offensive and defensive functions, including the maximum sortie rate in the POE with limited capability to support secondary functions/responsibilities simultaneously. This state supports war and operation plans executed at DEFCON I. Transition to this maximum state of readiness may begin with the declaration of DEFCON II (a further increase in force readiness, but less than maximum readiness) with an objective for full augmentation achieved prior to the onset of DEFCON I. All watch stations and vital positions will be manned to sustain operations at the maximum sortie rate indefinitely once augmentation is complete.

(2) All personnel assets detailed in unit augmentation plans shall be staffed by permanent personnel, earmarked reserves, and earmarked augmentees.

b. Readiness State III: Current Operations Readiness:

(1) Conducting current operations without augmented assets. Watch stations and vital positions sufficient to sustain theater and local operations at the DEFCON IV or III are manned and ready. The squadron is able to execute limited sortie plans in advance of augmentation support. This readiness state is the sum total of those watch stations and vital positions required to support routine operations in DEFCON IV (increased intelligence watch and strengthened security measures, if required, designed to minimize time to respond for civil support) and the additional watch stations and vital positions required to immediately surge to a level to support DEFCON III (an increase in force readiness above that required for normal readiness).

(2) All personnel to support this readiness state shall be permanent unit assets. For deployed aviation units and/or detachments, readiness state III is considered the minimum required state of readiness.

c. Readiness State IV: Training Readiness. Conducting maintenance and training at home base, local operating areas, or at training bases. Maximum advantage is taken of training opportunities. Subject to the forgoing requirements, squadron personnel will be provided maximum opportunity for rest, leave and liberty when the squadron is not actively engaged in training exercises.

3. Capability Levels. ROC symbols are used to specify the desired level of achievement of readiness or other work for or during a particular readiness condition. Readiness normally applies to watches and/or evolutions, while other work refers to non-watch activity such as performing maintenance or running the galley.

a. F - Full. The capability is to be fully achieved. For operational functions (watches), this means that installed equipment or systems will be fully manned to designed capability. For support functions, sufficient manning is provided to ensure effective accomplishment of all included tasks. The achievement is to be sustained for the duration of the condition unless modified by an "A" or "E".

b. L - Limited. The capability is to be only partially realized. Even though only limited capability is realized, it is to be sustained for the duration of the condition unless modified by an "A" or "E".

c. A - Augmentation. The capability is to be either fully or partially achieved for a limited time during the condition. The capability is achieved by using off-watch or off-duty personnel to achieve the required degree of capability. This symbol is always associated with an "F" or "L" and establishes a requirement for personnel to be trained, available, and on call to augment existing watch stations as required.

d. E - Special Team. The capability is to be either fully or partially achieved for a limited time during the condition. The capability is achieved by using off-watch special teams or details. This symbol is always associated with an "F" or "L" and denotes a capability which does not require continuous watch manning. Teams and details as set may either supplement or replace all or part of the existing watch organization.

REQUIRED OPERATIONAL CAPABILITIES

COMMAND, CONTROL, AND COMMUNICATIONS (CCC)			I	III	IV
CCC	3	PROVIDE OWN UNIT'S COMMAND AND CONTROL FUNCTIONS.			
CCC	3.3	Provide all personnel services, programs and facilities to safeguard classified material and information.	F	F	F
CCC	3.4	Carry out emergency destruction of classified material and equipment rapidly and efficiently.	F	F	F
CCC	6	PROVIDE COMMUNICATIONS FOR OWN UNIT.			
CCC	6.1	Maintain tactical voice communications.	F	F	F
FLEET SUPPORT OPERATIONS (FSO)			I	III	IV
FSO	1	REPAIR AND OVERHAUL SHIPS, AIRCRAFT AND ASSOCIATED EQUIPMENT.			
FSO	1.13	Provide general administrative and planning services. For unit operations only.	L	L	L
FSO	20	PROVIDE FLEET TRAINING SERVICES.			
FSO	20.19	Provide training in emergency destruction procedures.	N/A	F	F
FSO	21	PROVIDE FAMILIARIZATION TRAINING IN FLEET OPERATIONAL AIRCRAFT FOR FLEET REPLACEMENT AIRCREW PERSONNEL.			

FSO	21.1	Conduct ground training in aircraft systems.	N/A	F	F
FSO	21.2	Conduct ground training in safety precautions and procedures.	N/A	F	F
FSO	21.3	Conduct operational flight trainer (OFT) and/or in-flight training in aircraft maneuvering characteristics.	N/A	F	F
FSO	21.4	Conduct OFT and/or in-flight training in aircraft emergency procedures.	N/A	F	F
FSO	21.5	Conduct OFT and/or in-flight training in safety precautions and procedures.	N/A	F	F
FSO	21.7	Conduct training in day/night air-to-air refueling procedures and techniques.	N/A	F	F
FSO	21.8	Conduct threat characteristics training.	N/A	F	F
FSO	21.9	Conduct visual recognition training.	N/A	F	F
FSO	22	PROVIDE TRAINING IN AIRBORNE WEAPONS SYSTEMS EMPLOYMENT TO FLEET REPLACEMENT AIRCREW PERSONNEL (FRS ONLY).			
FSO	22.3	Conduct training in safety and operational aspects of nuclear weapons employment.	N/A	F	F
FSO	24	PROVIDE INDIVIDUAL AIRCREW POSITIONAL TRAINING IN FLEET OPERATIONAL AIRCRAFT TO FLEET REPLACEMENT AIRCREW PERSONNEL.			
FSO	24.1	Conduct classroom and/or Weapons System Trainer (WST) training for navigators.	N/A	F	F
FSO	24.2	Conduct in-flight training for navigators.	N/A	F	F
FSO	24.19	Conduct classroom and/or OFT training for flight engineers.	N/A	F	F
FSO	24.20	Conduct in-flight training for flight engineers.	N/A	F	F
FSO	24.21	Conduct classroom and/or WST training for flight technicians.	N/A	F	F
FSO	24.22	Conduct in-flight training for flight technicians.	N/A	F	F
FSO	24.25	Conduct classroom and/or WST training for reel operators.	N/A	F	F
FSO	24.26	Conduct in-flight training for reel operators.	N/A	F	F
FSO	25	PROVIDE WST AND IN-FLIGHT INTEGRATED CREW COORDINATION TRAINING IN FLEET OPERATIONAL AIRCRAFT TO FLEET REPLACEMENT AIRCREW PERSONNEL.	N/A	F	F

FSO	26	PROVIDE INSTRUMENT TRAINING FOR AVIATORS AND NAVAL FLIGHT OFFICERS IN FLEET OPERATIONAL AIRCRAFT.			
FSO	26.1	Conduct classroom training in instrument flight rules and procedures.	N/A	F	F
FSO	26.2	Conduct in-flight training in instrument flight rules and procedures.	N/A	F	F
FSO	31	OPERATE AN AVIATION TRAINING SUPPORT SYSTEM	N/A	F	F
FSO	32	FUNCTION AS MODEL MANAGER FOR U.S. NAVY (USN) INSTRUCTIONAL SYSTEM TRAINING FOR OWN UNIT'S SPECIFIC WARFARE COMMUNITY.	N/A	F	F
FSO	58	FUNCTION AS MODEL MANAGER FOR TRAINING AND PROGRAMS.			
FSO	58.1	Function as aircraft model manager for U.S. Navy naval air training and operating standardization (NATOPS) programs.	N/A	F	F
FSO	58.2	Function as training model manager for FRS as directed by higher authority.	N/A	F	F
FSO	60	FUNCTION AS OPERATIONAL SPONSOR FOR DEVELOPMENT OF MAJOR AVIATION TRAINING DEVICES.	N/A	F	F
FSO	61	CONDUCT AND COORDINATE AVIATION TRAINING FOR FOREIGN PERSONNEL AND OTHER DOD ORGANIZATIONS AS DIRECTED.	N/A	F	F
NONCOMBAT OPERATIONS (NCO)			I	III	IV
NCO	2	PROVIDE ADMINISTRATIVE AND SUPPLY SUPPORT FOR OWN UNIT.			
NCO	2.1	Provide supply support services.	F	F	F
NCO	2.2	Provide clerical services.	F	F	F
NCO	2.4	Provide post office services. Internal collection and distribution only.	L	L	L
NCO	2.7	Provide inventory and custodial services.	F	F	F
NCO	2.12	Conduct human resources availability activities and inspections.	N/A	F	F
NCO	3	PROVIDE UPKEEP AND MAINTENANCE OF OWN UNIT.			
NCO	3.4	Maintain preservation and cleanliness of topside and internal spaces.	F	F	F
NCO	3.5	Provide for proper storage, handling, use and transfer of hazardous materials.	F	F	F

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NCO	8	SERVE AS A PLATFORM FOR OPERATIONAL TEST EVALUATION OF SYSTEMS, EQUIPMENT AND TACTICS.			
NCO	8.1	Provide technical assistance for installed test and evaluation equipment.	F	F	F
NCO	21	Function as model manager for USN personnel qualification standard for own unit's specific warfare and/or specialist community.	F	F	F
NCO	29	Provide TYPE COMMANDER NATOPS evaluator for duties regarding NATOPS matters as may be directed.	F	F	F