



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
2000 NAVY PENTAGON
WASHINGTON, D.C. 20350-2000

IN REPLY REFER TO:

OPNAVINST 3501.272B
N88
15 MAR 2011

OPNAV INSTRUCTION 3501.272B

From: Chief of Naval Operations

Subj: REQUIRED OPERATIONAL CAPABILITY AND PROJECTED OPERATIONAL ENVIRONMENT STATEMENTS FOR CARRIER AIRBORNE EARLY WARNING SQUADRON ONE TWO ZERO (VAW-120) FLEET REPLACEMENT SQUADRON

Ref: (a) OPNAVINST C3501.2K (NOTAL)
(b) OPNAVINST 1000.16K
(c) NWP 10-1-11 Rev A (NOTAL)

Encl: (1) Required Operational Capabilities (ROC) Statement for Carrier Airborne Early Warning Squadron ONE TWO ZERO (VAW-120)
(2) Projected Operational Environment (POE) Statement for Carrier Airborne Early Warning Squadron ONE TWO ZERO (VAW-120)

1. Purpose. To issue the revised required operational capabilities (ROC) and projected operational environment (POE) statements for Carrier Airborne Early Warning Squadron ONE TWO ZERO (VAW-120).

2. Cancellation. OPNAVINST C3501.272A.

3. Discussion. Enclosures (1) and (2) have been prepared per references (a) and (b). The ROC and POE describe the mission areas, environment and operational capabilities for which the E-2/C-2A Fleet Replacement Squadron (FRS) is configured. This instruction provides resource agencies with information concerning E-2/C-2A FRS mission requirements, capabilities, and the types and locations of expected operations. Together, the ROC and POE establish tasking which produces a measurable workload used to compute personnel requirements for squadron manpower documents (SQMD). Enclosure (1) will assist in determining specific mission area M-Ratings reporting under reference (c).

4. Action. Combatant commanders are requested to periodically review enclosures (1) and (2) and submit changes to the Chief of Naval Operations Air Warfare Division (N88) via Knowledge Dominance Division (N2/N6F4) as appropriate when capabilities of the E-2/C-2 FRS are significantly altered by introduction or deletion of systems or changes in the operating and training profiles. Change recommendations should include comments on the expected SQMD impact.

5. Points of Contact. E-2 Requirements Officer, N2/N6F42, 703-604-7766; and C-2 Requirements Officer, N8861, 703-695-2279.

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 November 2007.



K. E. FLOYD
Rear Admiral, U.S. Navy
Director, Air Warfare

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REQUIRED OPERATIONAL CAPABILITIES (ROC)
FOR
CARRIER AIRBORNE EARLY WARNING SQUADRON ONE TWO ZERO (VAW 120)

1. Mission. The squadron's mission is to indoctrinate and train active duty and reserve component naval aviators, naval flight officers (NFO), and aircrew members in the operation and maintenance of the E-2 Hawkeye and C-2A Greyhound aircraft. Accordingly, the following mission warfare areas are assigned:

CCC	FHP	FSO	IO	INT	LOG	MOB	MOS	NCO
S	S	P	S	S	S	S	S	S

CCC = command, control, and communications; FHP = force health protection; FSO = fleet support operations; IO = information operations; INT = intelligence; LOG = logistics; MOB = mobility; MOS = missions of state; NCO = non-combat operations.

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

Readiness State IV: Training Readiness. Conducting maintenance and training at home base, local operating areas, or training bases. Training opportunities will be maximized. 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 major 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.

"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

- CCC 4.6 Receive and process data link information from high frequency (HF) systems. F
- CCC 4.8 Provide link 16 Joint Tactical Information Direction System (JTIDS) control of airborne CAP. F
- CCC 4.9 Transmit/receive and support link 16 surveillance, navigation, and identification circuits. F
- CCC 4.11 Receive data link tracks from airborne air warfare aircraft. F
- CCC 4.14 Transmit/receive and correlate targeting information with cooperative engagement capability (CEC). F
- CCC 6 PROVIDE COMMUNICATIONS FOR OWN UNIT.**
- CCC 6.6 Process messages. F
- CCC 6.16 Provide tactical, secure, anti-jam ultra-high frequency (UHF) voice communications. F
- CCC 6.19 Provide tactical, secure voice, or data communications. F
- CCC 6.28 Maintain Secret Internet Protocol Router Network (SIPRNET) and Unclassified but Sensitive Internet Protocol Router Network (NIPRNET) systems and support systems. F
- CCC 19 REPAIR OWN UNITS CCC EQUIPMENT.** F
- CCC 21 PERFORM COOPERATIVE ENGAGEMENT.**
- CCC 21.3 Participate in cooperative engagement with CEC. F

FORCE HEALTH PROTECTION (FHP)

- FHP 24 PROVIDE FIRST AID ASSISTANCE.**
- FHP 24.2 Train assigned and embarked personnel in first aid, self and buddy aid procedures. F
- FHP 32 PROVIDE AVIATION/DIVING MEDICINE SERVICES.**
- FHP 32.4 Provide training on the physiological aspects of flight survival and rescue. F
- FHP 32.5 Provide aeromedical expertise in aircraft mishap investigations and aviation specific administrative matters. F

FLEET SUPPORT OPERATIONS (FSO)

- FSO 1 REPAIR AND OVERHAUL SHIPS, AIRCRAFT, AND ASSOCIATED EQUIPMENT.**

- FSO 1.2 Provide repair services for aircraft. F
- FSO 1.3 Provide repair and inspection services for environmental, gyro, and electrical systems. F
- FSO 1.4 Provide inspection, test, calibration, and communications equipment, tactical data systems, navigation systems, and surveillance systems. F
- FSO 1.7 Provide quality assurance and control services. F
- FSO 1.8 Provide inspection, repair, test, flush, purging, and calibration services for air, gas and hydraulic fluid systems. F
- FSO 1.14 Provide inspection, test, calibration, or repair service for hydraulics, interior communication, refrigeration and air conditioning, electronics, antenna non-destructive test, and quality assurance. F
- FSO 3 PROVIDE SUPPORT SERVICES TO OTHER UNITS.**
- FSO 3.7 Provide aircraft ferry services. L
(L) Unit aircraft type only.
- FSO 6 SUPPORT/CONDUCT SAR OPERATIONS IN A COMBAT/NON-COMBAT ENVIRONMENT.**
- FSO 6.1 Support/conduct combat/non-combat SAR operations by fixed or rotary wing aircraft. L
(L) Non-combat only.
- FSO 6.6 Conduct SAR operations (including operations involving submarine disasters/rescues). L
(L) Non-combat only.
- FSO 6.7 Conduct general surveillance. L
(L) Non-combat only.
- FSO 6.8 Acquire and display distress data. L
(L) Non-combat only.
- FSO 6.9 Report situational assessment. L
(L) Non-combat only.
- FSO 6.10 Coordinate SAR operations. L
(L) Non-combat only.
- FSO 6.11 Conduct multi-unit SAR operations. L
(L) Airborne coordination or on-scene commander only. Non-combat only.
- FSO 21 PROVIDE FAMILIARIZATION TRAINING IN FLEET OPERATIONAL AIRCRAFT FOR FLEET REPLACEMENT AIRCREW PERSONNEL.**
- FSO 21.1 Conduct ground training in aircraft systems. F

- FSO 21.2 Conduct ground training in safety precautions and procedures. F
- FSO 21.3 Conduct operational flight trainer (OFT) and or in-flight training in aircraft maneuvering characteristic. F
- FSO 21.4 Conduct OFT and or in-flight training in aircraft emergency procedures. F
- FSO 21.5 Conduct OFT and or in-flight training in safety precautions and procedures. F
- FSO 21.6 Conduct day/night training in formation flying techniques. L
(L) Day only.
- FSO 21.7 Conduct training in day/night air-to-air refueling. L
(L) Only if in possession of specifically modified E-2Ds equipped for air-to-air refueling.
- FSO 21.8 Conduct threat characteristics training. F
- FSO 21.9 Conduct visual recognition training. F
- FSO 22 PROVIDE TRAINING IN AIRBORNE WEAPONS SYSTEMS EMPLOYMENT TO FLEET REPLACEMENT AIRCREW PERSONNEL.**
- FSO 22.1 Conduct training in safety and operational aspects of conventional weapons employment. F
- FSO 22.6 Conduct training in air strike operations. F
- FSO 22.7 Conduct training in airborne operations in support of other strike forces. F
- FSO 22.8 Conduct training in airborne operations in support of air strike operations. F
- FSO 22.13 Conduct training in airborne early warning procedures. F
- FSO 22.14 Conduct training in airborne control of aircraft. F
- FSO 22.15 Conduct training in airborne anti-submarine operations. F
- FSO 22.16 Conduct training in surface surveillance operations. F
- FSO 23 PROVIDE FLEET OPERATIONAL CARRIER LANDING AND TAKE-OFF QUALIFICATIONS TO FLEET REPLACEMENT AIRCREW PERSONNEL.**
- FSO 23.1 Conduct day carrier qualifications (CQ). F
- FSO 23.2 Conduct night/all-weather CQs. L
(L) Day only for C-2.
- FSO 23.3 Provide personnel (aircrews and enlisted) in support of CQ deployments. F

- FSO 23.4 Conduct day/night field carrier landing practice (FCLP). F
- FSO 24 PROVIDE INDIVIDUAL AIRCREW POSITIONAL TRAINING FOR FLEET REPLACEMENT AIRCREW PERSONNEL.**
- FSO 24.11 Conduct classroom and or weapon system trainer (WST) training for combat information control officer (CICO). F
- FSO 24.12 Conduct in-flight training for CICO. F
- FSO 24.17 Conduct classroom and or WST training for electronic support measures (ESM) operators. L
(L) Installed ESM systems only.
- FSO 24.18 Conduct in-flight training for ESM operators. L
(L) Installed ESM systems only.
- FSO 25 PROVIDE WST AND IN-FLIGHT INTEGRATED CREW COORDINATION TRAINING IN FLEET OPERATIONAL AIRCRAFT TO FLEET REPLACEMENT AIRCREW PERSONNEL.** F
- FSO 26 PROVIDE INSTRUMENT TRAINING FOR AVIATORS AND NFOs IN FLEET OPERATIONAL AIRCRAFT.**
- FSO 26.1 Conduct classroom training in instrument flight rules and procedures. F
- FSO 26.2 Conduct in-flight training in instrument flight rules and procedures. F
- FSO 27 CONDUCT NAVIGATION STATION OPERATIONS.**
- FSO 27.1 Provide navigation data to ships and aircraft. F
- FSO 31 OPERATE AN AVIATION TRAINING SUPPORT SYSTEM.** F
- FSO 32 FUNCTION AS MODEL MANAGER FOR U.S. NAVY INSTRUCTIONAL SYSTEMS TRAINING FOR OWN UNIT'S SPECIFIC WARFARE COMMUNITY.** F
- FSO 55 MAINTAIN READINESS BY PROVIDING FOR TRAINING OF OWN UNITS PERSONNEL.** 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 Procedures Standardization (NATOPS) programs. F

- FSO 60** **FUNCTION AS OPERATIONAL SPONSOR FOR DEVELOPMENT OF MAJOR AVIATION TRAINING DEVICES.** F
- FSO 61** **CONDUCT AND COORDINATE AVIATION TRAINING FOR FOREIGN PERSONNEL AND OTHER DEPARTMENT OF DEFENSE ORGANIZATIONS AS DIRECTED.**
- FSO 61.1 Conduct and coordinate integration of selected augmentation unit into own unit's aviation training. F
- FSO 61.2 Conduct and coordinate aviation training for foreign personnel as directed by approved foreign military sales programs. F

INTELLIGENCE (INT)

- INT 2** **PROVIDE INTELLIGENCE.**
- INT 2.2 Evaluate and disseminate intelligence information. F
- INT 2.4 Establish and maintain access to naval and national intelligence sources. F

INFORMATION OPERATIONS (IO)

- IO 4** **PLAN AND IMPLEMENT OPERATIONS SECURITY (OPSEC) MEASURES.**
- IO 4.12 Execute OPSEC measures. F
- IO 4.13 Conduct training of personnel on OPSEC terminology and procedures. F

LOGISTICS (LOG)

- LOG 2** **TRANSFER/RECEIVE CARGO AND PERSONNEL.**
- LOG 2.1 Provide scheduled carrier onboard delivery (COD)/vertical onboard delivery flights and associated receipt/distribution of material, mail and passengers. F
- LOG 6** **PROVIDE AIRLIFT OF CARGO AND PERSONNEL.**
- LOG 6.1 Provide scheduled/response airlift of cargo, mail, and personnel. L
(L) Squadron personnel and equipment only.
- LOG 6.4 Provide COD services. L
(L) Squadron personnel and equipment only.
- LOG 6.5 Provide medical evacuation services. L
(L) Limited aircraft and services available.

LOG 9 **REPAIRS OWN UNITS LOGISTICS EQUIPMENT.** F

MOBILITY (MOB)

MOB 2 **SUPPORT/PROVIDE SAFE, FLYABLE AIRCRAFT FOR ALL-WEATHER OPERATIONS.** F

MOB 3 **PREVENT AND CONTROL DAMAGE.**

MOB 3.1 Control fire, flooding, electrical, structural propulsion, and hull/airframe casualties. F

MOB 3.2 Counter and control chemical, biological, and radiological contaminates/agents. L
(L) Assist ship or station.

MOB 3.3 Maintain security against unfriendly acts. F

MOB 3.5 Provide damage control security/surveillance. F

MOB 4 **TRANSFLY ON SHORT NOTICE.**

MOB 4.1 Self-lift from staging site to departure site. L
(L) Aircraft and crew only.

MOB 4.2 Trans-fly in all weather conditions. L
(L) Aircraft and crew only.

MOB 5 **MANEUVER IN FORMATION.** L
(L) Day only.

MOB 6 **(U) REFUEL IN THE AIR.**

MOB 6.2 Receive fuel in day/night air-to-air refueling. L
(L) Only if in possession of specifically modified E-2Ds equipped for air-to-air refueling.

MOB 7 **PERFORM SEAMANSHIP, AIRMANSHIP, AND NAVIGATION TASKS.**

MOB 7.1 Navigate under all conditions of geographic location, weather and visibility. F

MOB 7.9 Operate day and night and under all weather conditions. F

MOB 8 **OPERATE FROM A SHIP.**

MOB 8.1 Operate from an aircraft carrier. F

MOB 11 **MAINTAIN MOUNT-OUT CAPABILITIES.**

MOB 11.1 Deploy with organic allowance in designated time period. F

MOB 11.2 Mount-out selected elements/detachments. F

- MOB 11.3 Maintain capability for rapid airlift of unit/detachment as directed. F
- MOB 12 MAINTAIN THE HEALTH AND WELL-BEING OF THE CREW.**
- MOB 12.3 Monitor and or maintain the environment to ensure the protection of personnel from overexposure to hazardous levels of radiation, temperature, noise, vibration, and toxic substances per current instructions. F
- MOB 12.5 Monitor the health and well-being of the crew to ensure that habitability is consistent with approved habitability procedures and standards. F
- MOB 14 CONDUCT OPERATIONS ASHORE.**
- MOB 14.1 Operate in climate extremes ranging from cold weather to tropical to desert environments. F
- MOB 15 CONDUCT PARACHUTE OPERATIONS.**
- MOB 15.3 Conduct administrative parachute demonstrations. F

MISSIONS OF STATE (MOS)

- MOS 2 PROVIDE HUMANITARIAN ASSISTANCE.**
- MOS 2.1 Deliver relief material. F
- MOS 2.4 Provide disaster assistance and evacuation. F

NON-COMBAT OPERATIONS (NCO)

- NCO 2 PROVIDE ADMINISTRATIVE AND SUPPLY SUPPORT FOR OWN UNIT.**
- NCO 2.1 Provide supply support services. F
- NCO 2.2 Provide clerical services. F
- NCO 2.3 Provide disbursing services. L
(L) Internal distribution only.
- NCO 2.4 Provide post office services. L
(L) Internal distribution only.
- NCO 2.7 Provide inventory and custodial services. F
- NCO 2.8 Provide personnel for living space maintenance. F
- NCO 2.9 Provide personnel for area command security. F
- NCO 2.11 Provide personnel for fuels support. F
- NCO 2.12 Conduct human resources availability activities and inspections. F

- NCO 3 PROVIDE UPKEEP AND MAINTENANCE OF OWN UNIT.**
- NCO 3.1 Provide organizational level preventive maintenance. F
- NCO 3.2 Provide organizational level corrective maintenance. F
- NCO 3.4 Maintain preservation and cleanliness of topside and internal spaces. F
- NCO 3.5 Provide for proper storage, handling, use, and transfer of hazardous materials. F
- NCO 5 CONDUCT METEOROLOGICAL, HYDROGRAPHIC AND OR OCEANOGRAPHIC COLLECTION OPERATIONS OR SURVEYS.**
- NCO 5.1 Collect and disseminate meteorological information. (L) Pilot reports only. L
- NCO 10 PROVIDE EMERGENCY/DISASTER ASSISTANCE.**
- NCO 10.1 Provide emergency flooding/fire fighting assistance to another unit. (L) Personnel assistance only. L
- NCO 10.4 Provide disaster assistance and evacuation. F
- NCO 11 SUPPORT/PROVIDE FOR THE EVACUATION OF NON-COMBATANT PERSONNEL IN AREAS OF CIVIL OR INTERNATIONAL CRISIS.**
- NCO 11.1 Support/conduct helicopter/boat evacuation of non-combatant personnel as directed by higher authority from areas of civil or international crisis. (L) Radar surveillance and coordination only. L
- NCO 20 ASSIST AND SUPPORT THE OPERATING FORCES IN THE PLANNING AND CONDUCT OF COVER AND DECEPTION.**
- NCO 20.1 Provide personnel and equipment to operational commanders upon request to support the planning and conduct of deception operations. F
- NCO 20.2 Within the constraints of available resources, form and provide notional forces and equipment to support approved deception plans. F
- NCO 20.4 Provide support required for deception operations to conceal the true identity, composition, location, mission, capabilities, and readiness of naval units or forces. F
- NCO 20.6 Plan and assist in training programs and exercises to improve fleet proficiency in deception and counter-deception operations. F

- NCO 20.7 Coordinate, control, and analyze the effectiveness of operational deception operations. L
(L) Secondary mission, coordinate and control only.
- NCO 21 **FUNCTION AS MODEL MANAGER FOR U.S. NAVY PERSONNEL QUALIFICATION STANDARD FOR OWN UNIT'S SPECIFIC WARFARE COMMUNITY.** F
- NCO 29 **PROVIDE TYPE COMMANDER NATOPS EVALUATOR FOR DUTIES REGARDING NATOPS MATTERS AS MAY BE DIRECTED.** F
- NCO 45 **PROVIDE ANTI-TERRORISM (AT) DEFENSE.**
- NCO 45.1 Assimilate and disseminate intelligence on terrorist activities directed at U.S. Navy installations, ships, and personnel. F
- NCO 45.3 Declare general warnings of possible terrorist activity. F
- NCO 45.4 Anticipate and provide defenses against terrorist activities directed at ships, installations, facilities, and personnel. Include provisions for barriers, access control, surveillance, intruder detection, and electronic security systems. F
- NCO 45.5 Conduct screening of non-assigned personnel and materials entering the unit or facility using: logical means (validation of identification, documentation, etc.) and physical means (searches, etc.). F

PROJECTED OPERATIONAL ENVIRONMENT (POE)
FOR
CARRIER AIRBORNE EARLY WARNING SQUADRON ONE TWO ZERO
(VAW 120)

1. Operate from a fixed land base at Naval Air Station (NAS) Oceana Air Detachment Norfolk and aboard aircraft carriers during CQ detachments.

2. Detachments

a. Deploy CQ detachments, primarily to the Virginia Capes operating area, Jacksonville operating area, or Southern California operating area 5 times per year for 4 to 7 days per evolution. Basic deployment composition includes: 5 E-2, and 2 C-2A aircraft; approximately 8 instructor pilots, 8 NFO instructors, 8 to 15 student pilots, 4 landing signal officers (LSO), 4 duty officers, 1 maintenance officer, and 80 enlisted personnel for embarked support during the approximately 1 week CQ evolution. If deployment site shore support is required, an additional 2 officers and 40 enlisted personnel would be required. Flight deck operations require a safety chain around propeller driven aircraft. This increases the number of personnel required to launch an aircraft from 8 ashore, to a total of 10 for operations afloat. Manning must meet the requirement for an eight aircraft launch and two maintenance shifts for deployed operations.

NOTE: Squadron manning must be sufficient to support 70 percent of normal operating schedule at home base during deployed operations.

b. Deploy FCLP detachments five times per year to NAS Pensacola, NAS Key West, Naval Base Ventura County (NBVC) Point Mugu, NAS Jacksonville, or JRB Dallas/Fort Worth. Basic composition includes: 5 E-2, and 2 C-2A aircraft; approximately 8 instructor pilots, 8 to 15 student pilots; 4 LSO, 1 staff pilot, 1 staff NFO, 4 duty officers, 1 maintenance officer, and 85 to 95 enlisted personnel forward based to support a 10-day evolution.

NOTE: Squadron manning must be sufficient to support 70 percent of normal operating schedule at home base during deployed operations.

3. Primary Aircraft Authorized

Model	Fiscal Year (FY)10	FY11	FY12	FY13	FY14	FY15
E-2D	1	1	3	4	5	5
E-2C	12	11	10	10	10	8
C-2A	5	5	5	5	5	5

4. Aircraft Utilization (hours per month)

Model	FY10	FY11	FY12	FY13	FY14	FY15
E-2D	24	29	29	29	28	28
E-2C	35	34	34	35	27	27
C-2A	29	29	29	29	29	29

5. Navy standard workweek for enlisted personnel as applicable in reference (c): planned maintenance day (MD) of 24-hours, 7-days per week, to support a flying day of 16 hours, 5-days per week, to specifically consist of and include a four shift maintenance philosophy governing day, night, mid and weekend shifts. Each shift will concurrently encompass the planned MD. Exceptions to the standard work week include:

a. Conduct FCLP/CQ during weekends as required by operational and carrier schedules.

b. Conduct local or cross country training flights on weekends as required by FCLP/CQ detachments and student throughput.

6. Training Load

	CAT	FY10	FY11	FY12	FY13	FY14
a. E-2C Pilots	I	22	23	20	19	18
	II	2	2	2	2	2
	III	12	12	9	9	8
	IV	4	4	3	3	2
	V	0	1	2	2	2
b. E-2D Pilots	I	0	0	3	4	6
	II	0	0	3	17	16
	III	0	0	0	0	1
	IV	0	0	0	0	2
	V	0	0	0	0	0
c. C-2A Pilots	I	14	14	16	17	16
	II	2	2	2	2	2
	III	6	6	6	6	6
	IV	1	1	1	1	1
	V	0	0	0	0	0
d. E-2C NFOs	I	41	41	38	33	30
	II	3	3	3	3	3
	III	18	18	18	15	13
	IV	4	4	5	5	4
	V	0	0	0	0	0
e. E-2D NFOs	I	0	0	4	6	9
	II	0	0	5	25	24
	III	0	0	0	0	1
	IV	0	0	0	0	0
	V	0	0	0	0	0
f. C-2A Aircrew	I	10	10	10	10	10
	II	1	2	2	2	2
	III	3	3	3	3	3

CAT = category

7. Readiness Training Summary

a. Primary Type/Model/Series (TMS) Hours

	CATEGORY	Syllabus Hours Per Student	Aircraft Hours per Student
a. E-2C Pilots	I	160.34	86.46
	II	143.91	77.57
	III	89.4	57.9
	IV	63.2	42.2
	V	160.39	86.46
b. E-2D Pilots	I	161.39	87
	II	109.45	59
	III	74.2	40
	IV	74.2	40
	V	116.87	63
c. C-2A Pilots	I	138	71.69
	II	145.6	75.6
	III	78.1	53.4
	IV	55.2	36.7
d. E-2C NFOs	I	95.5	29.1
	II	88.2	26.9
	III	61.7	6.7
	IV	61.7	6.7
e. E-2D NFOs	I	137.84	42
	II	78.69	24
	III	111.48	34
	IV	111.48	34
f. C-2 Aircrew	I	68	68
	II	68	68
	III	68	68

b. Total Aircraft Hours Required

	FY10	FY11	FY12	FY13	FY14
E-2C CAT I - V	2,920.9	2,997.6	2,624.0	2,446.2	2,446.2
E-2D CAT I - V	180.0	354.0	438.0	1,351.0	1,586.0
C-2 CAT I - IV	1,512.0	1,620.9	1,760.2	1,727.0	1,727.0
E-2C NFO CAT I-IV	1,421.2	1,421.2	1,340.6	1,175.0	1,175.0
E-2D NFO CAT I-IV	102.0	120.0	240.0	780.0	870.0

8. Trainers and Simulators Assigned; Device Training Summary

Devices assigned:

E-2C Motion Oper Flight Trainer	2F110-1
E-2C No-Motion Oper Flight Trainer	2F166-2
C-2A No-Motion Oper Flight Trainer	2F168-1
E-2D No-Motion Oper Flight Trainer	2F210-1
E-2D Aircrew Part-task Trainer	2F211-1
E-2D Tactics Trainer	15F14-1
GrII Weapon Sys Trainer	15F8C-3
HE2K Weapon Sys Trainer	15F8H-4

CAT	Syllabus Sorties						Syllabus Hours						Total Trainer Hours					
	C2P	E2C	DP	E2C	DN	R	C2P	E2C	DP	E2C	DN	RAC	C2P	E2C	DP	E2C	DN	RAC
I	66	74	50	112	79	0	133	148	156	272	235	0	133	148	156	272	235	0
II	70	66	36	112	50	0	140	133	120	272	148	0	140	133	120	272	148	0
III	25	32	30	33	47	0	49	63	100	78	139	0	49	63	100	78	139	0
IV	19	21	30	33	47	0	37	42	100	78	139	0	37	42	100	78	139	0
V	0	74	39	0	0	0	0	148	132	0	0	0	0	148	132	0	0	0

9. Approved Additional Tasking Imposed by Higher Authority

a. Conduct an average of 13 acceptance/transfer inventories and inspections per year (approximately 30 functional check flight hours).

b. Provide administrative squadron support for fleet aircraft remaining in the Continental United States as part of the CQ shore-based detachment.

c. Provide services as E-2C/C-2A model manager and NATOPS unit evaluator for all east and west coast E-2 and C-2 squadrons (13 total). Seven total E-2C/C-2A model manager and NATOPS unit evaluators are required: two E-2C pilot, one C-2A pilot, two E-

2C NFO each, and one C-2A enlisted aircrew NATOPS program manager. The requirement for NATOPS manager is due to the number of evaluations required to be performed annually, and the requirement for the model manager is based on the multiple series of E-2Cs.

d. Provide model manager, NATOPS unit evaluator, and fleet project team support for E-2D. Four model managers are required: two E-2D pilots (one model manager and one NATOPS evaluator) and two E-2D NFOs (one model manager and one NATOPS evaluator). The requirement for model manager and NATOPS unit evaluator is due to the new platform requiring an assigned model manager to start up and administer the program and a NATOPS evaluator to travel and perform annual unit evaluations.

e. Designated E-2 and C-2A crew resource training model manager. Provide services as Commander Airborne Command Control and Logistics Wing Instrument Ground School and Crew Resource Management (CRM) instructor in Norfolk, VA, conducting monthly training courses. In addition, represent the E-2/C-2 TMS aircraft at all CRM and operational risk management training development meetings.

f. Provide E-2 and C-2A sorties each year in support of public affairs, air show static displays, flight demonstrations, legacy programs, homeland defense, space shuttle operations, humanitarian assistance/disaster relief efforts, and other contingency operations as directed by higher authority.

g. Due to total number of personnel assigned, various maintenance functions and training evolutions, additional 1520I, lieutenant commander (LCDR), billet as assistant maintenance officer, Navy officer billet classification 8190, aircraft, operational maintenance, general (AMO NOBC 8190 A/C OMNT GEN) is necessary for administrative maintenance oversight.

h. Due to the extraordinary number of personnel assigned in a limited duty/Navy enlisted classification 0054 status and to ensure administrative functions for over 300 personnel a 6410I, LCDR, limited duty officer administration/legal officer, or Government Service equivalent, is needed.

i. Implement and maintain Sierra Hotel Aviation Reporting Program (SHARP) computerized record keeping and scheduling of aircrew ground training.

j. Provide fleet project team for E-2C and C-2A support for 15F8C, 2F110, 2F166, and 2F168 simulators. Requirement is to maintain upgrades and add-ons to the legacy training devices and aircraft; and to update training (syllabus, NATOPS, lecture series, grade sheets, etc.) to reflect those changes, both at the FRS and in the fleet. Requires two full-time personnel (one pilot/one NFO) with two alternate (collateral duty) personnel.

k. Provide fleet project team for E-2D support for 2F210, 2F211, and 15F14 simulators. Two full-time personnel and two alternate E-2D fleet project team personnel are required to oversee and update the training of the new and evolving E-2D and associated trainers.

l. Provide management and administration of sensitive compartmented information (top secret/sensitive compartmented information) facilities associated with the E-2D, other joint platforms, mission planning, and training requirements. Six personnel are required to oversee the day to day operations of two large sensitive compartmented information facility buildings, and process and track the security access levels of over 450 Hawkeye Community personnel. Security requirements for FRS training and simulation necessitate permanent security manager assignment. For continuity and security requirements, this position shall be held by a qualified General Schedule employee. This position shall be maintained on the East Coast to facilitate FRS production, Joint mission planning requirements, Joint training requirements, E-2D transition, and will manage all security matters for assigned personnel.

m. Security requirements for the E-2C/D necessitate the annotation of "Q" in the special security category column of the activity manning document for all aircrew (designator 13XX) and three AT billets (one AT1 and two AT2) assigned to any billet sequence code in Work Center 210. Requirement is to support TMS operational and maintenance requirements at current levels of classification.

n. Fleet transition from the E-2C to the E-2D will be performed at the FRS for all 10 E-2 squadrons. Transition will mandate VAW-120 provide on-the-job E-2D maintenance training for transitioning squadrons' maintenance personnel as well as system and tactical training for E-2 aircrew. During each fleet squadron transition, maintenance personnel from the transitioning squadron will work with, and receive experienced mentorship from, FRS maintenance during the day to day upkeep and repair of all E-2Ds maintained in the FRS in preparation for safe for flight designation of the fleet squadron. On-the-job training will be provided for 95 personnel for a 7-month period. Additionally, system and operational training will be provided for approximately 30 aircrew for that same 7-month period.

o. Retain legacy quality assurance billets in addition to E-2D quality assurance billets to satisfy the requirement for contractor quality assurance oversight.

10. All statements of manpower contained herein are subject to Navy Manpower Analysis Center review and validation.