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N0931  
14 Aug 2012

OPNAV INSTRUCTION 3501.347A

From: Chief of Naval Operations

Subj: PROJECTED OPERATIONAL ENVIRONMENT AND REQUIRED  
OPERATIONAL CAPABILITY FOR THE NAVY FORWARD DEPLOYABLE  
PREVENTIVE MEDICINE UNIT

Ref: (a) OPNAVINST C3501.2K (NOTAL)  
(b) BUMEDINST 6440.5C

Encl: (1) Projected Operational Environment (POE) for Navy  
Forward Deployable Preventive Medicine Units (FDPMU)  
(2) Required Operational Capabilities (ROC) for Navy  
Forward Deployable Preventive Medicine Units (FDPMU)

1. Purpose. To issue the projected operational environment (POE) and the required operational capabilities (ROC) for the Navy forward deployable preventive medicine units (FDPMU).

2. Cancellation. OPNAVINST 3501.347.

3. Discussion. Enclosures (1) and (2) provide the necessary details to describe the mission areas and operational capabilities for which the Navy FDPMU was designed and organized per reference (a). Additionally, reference (b) provides specific guidance for the deployment of Navy Medicine assets. This instruction provides the resource sponsor and operational commander with the information they need concerning the Navy FDPMU mission requirements, capabilities, and the types and locations of expected operations.

4. Action. Fleet commanders and the Bureau of Medicine and Surgery (BUMED) shall periodically review enclosures (1) and (2) and recommend changes to the Office of the Chief of Naval Operations, Medical Plans and Policy (N0931) when capability of the Navy FDPMU is significantly altered. Change recommendations should include comments on the expected fleet manpower document (FMD) impact.

OPNAVINST 3501.347A  
14 Aug 2012

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



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**PROJECTED OPERATIONAL ENVIRONMENT (POE)  
FOR  
FORWARD DEPLOYABLE PREVENTIVE  
MEDICINE UNITS (FDPMU)**

1. The primary mission of the FDPMU is to provide force health protection (FHP) by rapidly assessing, preventing, and controlling health threats in a theater of operations and enhancing the capabilities of organic preventive medicine assets in meeting the FHP vision of the Department of Defense. The FDPMU provides rapidly deployable, portable, flexible and sustainable FHP services to forward deployed elements of the Navy and Marine Corps through the advent of state-of-the-art detection and diagnostic equipment and real time analytical capabilities. It can also be deployed to meet other Service FHP requirements or to support a joint task force commander when requested through official channels. FDPMU capabilities include identifying and evaluating endemic and anthropogenic environmental health hazards (including chemical, biological, radiological, and physical agents), assessing the risk of adverse health outcomes, monitoring the health of deployed forces, advising the operational commander of significant health risks and recommending interventions. It can be task-organized to meet any contingency and adapted to operate from land bases or mobile platforms afloat.

2. The most demanding operating environment anticipated for the FDPMU consists of a large, geographic area of responsibility with multiple operating locations. In this circumstance, readily available and appropriate transportation assets and personnel security measures are absolutely critical to completing timely health risk assessments so that accurate, comprehensive and timely information is provided to operational commanders. Restricted movement and inadequate security measures will severely limit the FDPMU's ability to complete the rapid assessments necessary to support health risk management within the theater of operations.

3. A complete FDPMU or selected unit type codes (UTC) are capable of deploying within 4 to 10 days of receiving a valid deployment order. Once equipment and personnel reach the

deployment site, partial analytical capabilities are available within 24 hours with full analytical capabilities available within 48 hours.

4. The FDPMU is dependent on the operational commander for site preparation including providing a level area of 14,000 square feet (0.32 acres) to establish administrative and analytical support facilities. This footprint is scalable. If the FDPMU is deployed in UTC fashion or without the tactical shelter series, less than 14,000 square feet may be adequate. Other required base operating support (BOS) services include: logistics support (equipment, supplies and consumables re-supply), site security, messing, medical and dental, personnel and cargo airlift, petroleum, oil, and lubricants (POL), electronic (signal) and voice communications links, medical and non-medical waste disposal, real and tenant property material and maintenance, minor construction, other engineering support, administrative support and services (including automated data processing support, fiscal and financial) rendered by or through activities of the supporting installation.

5. A secondary FDPMU mission is to support U.S. Government agencies involved in consequence management, humanitarian assistance and disaster relief (HA/DR), or stability operations. Staffing and logistic support packages can be tailored to specific missions without additional lead-time.

#### 6. Readiness Category Thresholds

a. During readiness categories I, II, and III, the FDPMU provides enhanced preventive medicine support to include:

(1) Identify, assess and prioritize potential health threats to deployed personnel by collecting, compiling and evaluating medical and environmental information from local and regional sources, collecting environmental and patient samples and employing field portable analytical instruments to generate actionable data from those samples. Data generated is used to provide prioritized recommendations to eliminate or mitigate health risks identified on a worst, first basis.

(2) Screen survey sites for the presence of radioactive material and identify the specific radioisotopes.

(3) Identify infectious diseases or other pathogenic agents, and perform antibiotic susceptibility testing to support public health interventions during disease outbreaks.

(4) Detect, identify and evaluate vector-borne disease threats, including advanced surveillance and control of arthropods and other animals that transmit diseases of military significance.

(5) Analyze intelligence reports, epidemiological surveys, disease surveillance results, and or information gained from civilian and private medical resources. Provide information that contributes to ongoing reevaluation and revision of preventive medicine strategies to control and mitigate health threats in the theater.

(6) Conduct epidemiological surveillance of disease and non-battle injury data.

(7) Conduct disease outbreak investigation and intervention.

(8) Sustain required capabilities for 30 days without resupply. Theater-level re-supply must then be provided via Single Integrated Medical Logistics Management (SIMLM) to continue with uninterrupted services and support.

b. Readiness Category IV

(1) During this reconstitution readiness category, new personnel ordered into Navy environmental and preventive medicine units (NEPMU) component unit identification codes (UICs) enter the FDPMU training cycle while simultaneously working to complete all pre-deployment and administrative requirements. These individuals, assigned as primary team members, are considered non-deployable until all requirements have been met and they have advanced within the FDPMU deployment readiness cycle.

(2) FDPMU team members returning from deployment immediately enter into this readiness category and begin the reconstitution process. These members will remain available to

augment readiness category II deployment mandates identified in enclosure (2) of this instruction and consistent with requirements of reference (b), enclosure (1).

(3) Maintain and build equipment and systems proficiency.

(4) FDPMU personnel complete mandatory training as prescribed in the FDPMU Navy Training Systems Plan and that all pre-deployment preparations and administrative functions have been met.

**REQUIRED OPERATIONAL CAPABILITIES (ROC)  
FOR  
NAVY FORWARD DEPLOYABLE PREVENTIVE MEDICINE UNITS (FDPMU)**

1. The mission of the FDPMU is to provide flexible and sustainable FHP support to component service or unified commanders through rapid assessment and identification of health hazards leading to recommendations for protective or control measures to reduce potential health threats to deployed personnel. Rapidly deployable and mobile, the FDPMU is staffed with highly trained health professionals and equipped with state-of-the-art field portable analytical and diagnostic capabilities intended to meet the needs of evolving contingencies. The FDPMU provides specialized, preventive medicine and force health threat assessment capabilities not available within organic preventive medicine assets. FDPMU capabilities include analysis, rapid health hazard assessments of disease vectors, infectious and communicable diseases, and occupational and environmental health threats. The FDPMU is scalable and can be task-organized to meet any contingency from small scale humanitarian support to major theater war. It can be adapted to operate from fixed or mobile land bases and ships. In order to support worldwide contingencies, four FDPMUs will be equipped, staffed, and trained by BUMED. These assets will be deployed per reference (b) specifications and described in paragraph 4 below.

2. The operating profile of the FDPMU consists of personnel mobilized from the NEPMUs and field portable analytical equipment, combat engineering support equipment and a minimal consumables package mobilized from the Navy Expeditionary Medical Support Command. The consumables package includes 5 days sustenance and 30 days consumable supplies for sustaining field analytical and health risk assessment operations. Re-supply must be provided by SIMLM. Connection with SIMLM is required as soon as possible upon arrival within the theater of operations. The FDPMU requires BOS for supply operations, messing, medical and dental, equipment transportation, POL, electronic (signal) and voice communication link-up and maintenance, scheduled maintenance and repair of environmental control units, medical and non-medical waste disposal, site preparation, maintenance of real and tenant property and material, minor construction, other engineering support,

administrative support and services (including automated data processing support, fiscal and financial) rendered by or through activities of the supporting installation, and security.

3. Primary (P) and secondary (S) mission areas are assigned below:

**FDPMU**

<b>CCC</b>	<b>EXW</b>	<b>FHP</b>	<b>FSO</b>	<b>MOB</b>	<b>MOS</b>	<b>NCO</b>
<b>S</b>	<b>S</b>	<b>P</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>

CCC = command, control and communications; EXW = expeditionary warfare; FSO = fleet support operations; MOB = mobility; MOS = missions of state; NCO = non-combat operations

4. ROCs are reported under readiness categories having major significance in determining the unit's total manpower requirements. The following summarizes the readiness categories applicable to the FDPMU:

**Readiness Category I: Routine Deployable**

While in readiness category I, one FDPMU shall be fully capable of meeting its wartime mission and positioned to deploy within 4 to 10 days of official notification. This mandate is per the Navy Medical Fleet Response Plan outlined in reference (b). The FDPMU will be capable of crisis response by assessing health risks posed by disease vectors, infectious and communicable diseases, and occupational and environmental health threats and provide consultations and recommendations to eliminate or reduce health threats in support of the operational commander.

**Readiness Category II: Surge Ready**

As directed by higher authority, the second of four FDPMUs shall be capable of deploying within 30 to 60 days of official notification. During this 30 to 60 day period, the FDPMU will be augmented by additional training or fully trained personnel globally sourced from other FDPMU assets residing in readiness category IV as defined below. Per reference (b), this FDPMU shall be fully capable of assessing health risks posed by disease vectors, infectious and



communicable diseases, and occupational and environmental health threats and provide consultations and recommendations to eliminate or reduce health threats in support of the operational commander by the end of the surge ready period.

**Readiness Category III: Emergency Surge**

In this readiness category, at least one of the remaining two FDPUMs will be available to deploy within 60 to 120 days specifically to support emergency surge requirements addressed in reference (b). Emergency surge preparations will be automatically initiated once the need to deploy in support of readiness category II has been verified. This FDPMU shall provide additional capability to meet the requirements of the requesting commander. Upon deployment, the FDPMU shall be capable of assessing health risks posed by disease vectors, infectious and communicable diseases, and occupational and environmental health threats and, provide consultations and recommendations to eliminate or reduce health threats in support of operations.

**Readiness Category IV: Training Readiness**

During this reconstitution readiness category, new personnel ordered into NEPMU component UICs enter the FDPMU training cycle while simultaneously working to complete all pre-deployment and administrative requirements. These individuals, assigned as primary FDPMU team members, are considered non-deployable until all requirements have been met and they have been advanced within with FDPMU deployment readiness cycle.

FDPMU team members returning from deployment immediately enter into this readiness category and begin the reconstitution process. These members will remain available to augment readiness category II deployment mandates identified in this enclosure above and consistent with requirements of reference (b), enclosure (1).

**CAPABILITIES**

"F" = "Full." The capability is to be fully achieved, i.e., all equipment is in a ready to deploy status and all personnel are fully trained to the designed capabilities.

"L" = "Limited." The capability can be only partially executed. Every "L" is supported by a statement specifying the limitation.

**COMMAND, CONTROL AND COMMUNICATIONS (CCC)**

**CCC 3 PROVIDE OWN COMMAND AND CONTROL FUNCTIONS.**

CCC 3.11 Establish voice communications with supported forces. L  
(L) - FDPMU equipped with secure two-way hand-held radios for team communications; require link-up to BOS communications network and level 2 (intermediate) secure radio/communications maintenance.

**CCC 6 PROVIDE COMMUNICATIONS FOR OWN UNIT.**

CCC 6.12 Maintain internal communications systems. L  
(L) - FDPMU equipped with secure two-way hand-held radios for team communications; require link-up to BOS communications network and level 2 (intermediate) secure radio/communications maintenance.

CCC 6.19 Provide tactical, secure voice or data communications. L  
(L) - FDPMU equipped with secure two-way hand held radios for team communications; require link-up to BOS communications network and level 2 (intermediate) secure radio/communications maintenance.

**EXPEDITIONARY WARFARE (EXW)**

**EXW 5 CONDUCT LAND CONVOY OPERATIONS.**

EXW 5.1 Provide for the secure movement of personnel and cargo via ground transportation in a permissive, uncertain or hostile environment. L  
(L) - Ground transportation inherent to FDPMU may not meet theater convoy requirements in an

asymmetric warfare environment. BOS convoy security support is required.

**EXW 6 MAINTAIN EXPEDITIONARY COMMUNICATIONS CAPABILITY.**

EXW 6.1 Set-up and maintain a mobile communications systems. L  
(L) - Requires BOS to establish secure frequencies and dedicated secure mobile communications environment.

EXW 6.5 Conduct Operational Security. F

EXW 6.7 Conduct routine and preventative maintenance (PMS) on mobile communications system. L  
(L) - FDPMU restricted to simple level 1 (organizational) PMS.  
Requires BOS level 2 (intermediate) PMS support.

**EXW 12 CONDUCT EXW SUPPORT OPERATIONS.**

EXW 12.1 Provide repair and inspection services for civil engineering support equipment (CESE). L  
(L) - FDPMU CESE operators restricted to performing fundamental pre-operational vehicle checks.  
Requires BOS level 2 (intermediate) scheduled maintenance and repair support.

EXW 12.5 Provide individual protective clothing and equipment to sufficiently protect personnel in a chemical, biological, or radiological (CBR) contaminated environment. L  
(L) - Allocation limited to FDPMU personnel.

**FORCE HEALTH PROTECTION (FHP)**

**FHP 5 PROVIDE PREVENTIVE MEDICINE/FIELD SANITATION SERVICES TO ASSIGNED AND EMBARKED PERSONNEL.**

FHP 5.1 Conduct sanitation and safety inspections in a field environment. F

- FHP 5.2 Conduct occupational health/safety and preventive medicine programs and training. F
- FHP 5.3 Conduct disease and vector control planning and operations in a field environment. F
- FHP 9 PROVIDE FIRST AID ASSISTANCE.**
- FHP 9.2 Train assigned and embarked personnel in first aid, self and buddy aid procedures. L  
(L) - Training limited to FDPMU personnel.
- FHP 14 PROVIDE FORCE HEALTH THREAT ASSESSMENTS AND PREVENTION FOR ASSIGNED AND EMBARKED PERSONNEL.**
- FHP 14.1 Conduct health and risk communications for health threats identified. F
- FHP 14.2 Conduct health threat assessments for chemical and biological agents, radiological and environmental hazards, and toxic industrial chemical, and detect and assess exposures during deployments. F
- FHP 14.3 Conduct health threat assessments for food, water, habitability and sanitation. F
- FHP 14.4 Conduct assessments of occupational health, safety, and preventive medicine programs. F
- FHP 14.5 Conduct threat assessments for disease vectors. F
- FHP 14.6 Conduct operations to prevent or reduce the threat of vector-borne diseases. F
- FHP 14.7 Conduct field detection, identification, and analysis of potential biological warfare agents and/or naturally occurring military relevant public health diseases. F
- FHP 14.8 Provide for safe and appropriate medical waste collection. L  
(L) - Limited to FDPMU operations.

FHP 14.9 Provide organic motor transport to sites requiring support within theater. L

(L) - Limited to FDPMU personnel and resources. Ground transportation inherent to FDPMU may not meet theater convoy requirements in an asymmetric warfare environment. BOS convoy security support is required.

FHP 14.10 Provide technical preventive medicine training to deployed medical personnel. F

**FHP 23 PROVIDE MEDICAL CARE TO ASSIGNED AND EMBARKED PERSONNEL.**

FHP 23.3 Conduct lab diagnostic services requiring laboratory officer or laboratory technician support. L  
(L) - Limited to public health microbiology services.

FHP 23.5 Conduct sanitation and safety inspections. F

FHP 23.6 Conduct occupational health/safety and preventive medicine programs and training. F

FHP 23.15 Conduct disease and vector control planning and Operations. F

**FHP 36 PROVIDE MEDICAL/DENTAL SUPPORT SERVICES TO OTHER UNITS/MILITARY SERVICES.**

FHP 36.8 Assess, coordinate and disseminate medical intelligence/preventive medicine information to the theater/assigned area of operation (AO) including civilian populations contiguous to AO forces or in likely operating areas. F

**FLEET SUPPORT OPERATIONS (FSO)**

**FSO 2 PROVIDE BASE FACILITY MAINTENANCE AND UTILITY OPERATIONS.**

FSO 2.1 Operate and maintain electric power generation systems (diesel) and distribution systems. L

(L) - Limited to the FDPMU which deploys with generator and environmental control unit capability. Operation is dependent on fuel, scheduled maintenance and repair provided by BOS. FDPMU restricted to level 1 (organizational) PMS.

**MOBILITY (MOB)**

**MOB 8 OPERATE FROM A SHIP.**

- MOB 8.1 Operate from an aircraft carrier. L  
(L) - Limited to shipboard systems compatibility restrictions.
- MOB 8.2 Operate from a ship with a helo platform. L  
(L) - Limited by shipboard configuration.
- MOB 8.12 Operate from a landing helicopter deck (LHD) or landing helicopter assault (LHA). L  
(L) - Limited to shipboard systems compatibility restrictions.

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

- MOB 11.1 Deploy with organic allowance within 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 12.1 Ensure all phases of food service operations are conducted consistent with approved sanitary procedures and standards. L  
(L) - Limited to specialized consultation beyond organic preventive medicine capabilities.
- MOB 12.2 Ensure the operation of the potable water system in a manner consistent with approved sanitary procedures and standards. L

(L) - Limited to specialized consultation beyond organic preventive medicine capabilities.

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. L

(L) - Limited to specialized consultation beyond organic preventive medicine capabilities.

MOB 12.5 Monitor the health and well-being of the crew to ensure that habitability is consistent with approved habitability procedures and standards.

(L) - Limited to FDPMU personnel according to current doctrine and unit capability.

MOB 12.11 Provide antidotes to staff, patients, and casualties which will counteract the effects caused by CBR-contaminated environment. L

(L) - Limited to supply for FDPMU personnel.

MOB 12.15 Identify, supply, and maintain decontamination stations. L

(L) - Limited to maintaining a decontamination station for FDPMU operations.

**MOB 14 CONDUCT OPERATIONS ASHORE.**

MOB 14.1 Operate in climatic extremes ranging from severe cold weather to hot-humid (tropical) to hot-dry (desert) and coastal/ocean environments. L

(L) - Extreme FDPMU operating range requires uninterrupted BOS fuel support to maintain environmental control capabilities.

MOB 14.2 Operate in the rear of combat zone in a Marine expeditionary brigade operation. L

(L) - Limited by availability of BOS requirements.

MOB 14.3 Erect hospital and establish medical operations within 72 hours of arrival at 10 to 12 acre surveyed site using organic staff and table of equipment. L

(L) - Limited to FDPMU spaces which requires

approximately 0.32 acres with moderate BOS support expected within the first 24 hours of FDPMU establishment, e.g., site preparation, fuel, and communication networking.

- MOB 14.4 Move up to 10 percent of operating equipment using organic motor transport assets. L  
(L) - Ground transportation inherent to FDPMU may not meet theater convoy requirements in an asymmetric warfare environment. BOS convoy security support is required.
- MOB 14.5 Conduct peacetime activation, mount-out and movement exercises of selected personnel and equipment to ensure capabilities of contingencies involving naval forces short of a general war. F
- MOB 14.7 Provide qualified personnel to conduct site survey. L  
(L) - Limited to operational restrictions.

**MISSION OF STATE (MOS)**

**MOS 1 PERFORM NAVAL DIPLOMATIC PRESENCE OPERATIONS.**

- MOS 1.2 Conduct force/unit tour for foreign dignitaries. F
- MOS 1.8 Participate in military exercises with allied nations. L  
(L) - Requires coordination from operational commander and limited to defined capabilities.
- MOS 1.9 Participate in military exercises with non-allied nations. L  
(L) - Requires coordination from operational commander and limited to defined capabilities.

**MOS 2 PROVIDE HUMANITARIAN ASSISTANCE.**

- MOS 2.4 Provide disaster assistance and evacuation. L  
(L) - Limited by mission, staffing, logistics availability.



MOS 2.21 Plan, direct and coordinate preventive medicine capabilities for HA/DR. L  
(L) - Limited by mission, staffing, logistics availability.

**MOS 3 PROVIDE PEACEKEEPING.**

MOS 3.2 Provide logistics support for joint/allied peacekeeping forces.  
(L) - Limited by mission, staffing, logistics availability.

MOS 3.3 Provide direct participation in a joint/allied peacekeeping force within a foreign country/region. L  
(L) - Limited by mission, staffing, logistics availability.

**MOS 16 FOREIGN HUMANITARIAN ASSISTANCE (FHA).**

MOS 16.1 Provide interface and liaison between U.S. military forces and local authorities, international organizations, and non-governmental organization. L  
(L) - Limited by mission, staffing, logistics availability.

MOS 16.2 Conduct disaster relief support operations. L  
(L) - Limited by mission, staffing, logistics availability.

MOS 16.3 Conduct dislocated civilian support operations. L  
(L) - Limited by mission, staffing, logistics availability.

MOS 16.4 Conduct FHA. L  
(L) - Limited by mission, staffing, logistics availability.

MOS 16.5 Conduct humanitarian and civic assistance operations. L  
(L) - Limited by mission, staffing, logistics availability.

MOS 16.6 Support technical assistance operations. L  
(L) - Limited by mission, staffing, logistics  
availability.

**MOS 21 PROVIDE FUNCTIONAL SPECIALITY SUPPORT TO OPERATIONS.**

MOS 21.10 Provide public health service support. F

**NON-COMBAT OPERATIONS (NCO)**

**NCO 2 PROVIDE ADMINISTRATIVE AND SUPPLY SUPPORT FOR OWN UNIT.**

NCO 2.7 Provide inventory and custodial services. 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. L

(L) - Limited to FDPMU technical/scientific  
equipment.

NCO 3.3 Provide small arms storage area. L  
(L) - Require extended small arms storage from BOS.

NCO 3.4 Maintain preservation and cleanliness of internal spaces. F

NCO 3.5 Provide for proper storage, handling, use, and transfer of hazardous materials (HAZMAT). L  
(L) - Require bulk HAZMAT storage support from BOS.

**NCO 8 SERVE AS A PLATFORM FOR OPERATIONAL TEST AND EVALUATION OF SYSTEMS, EQUIPMENT, AND TACTICS.**

NCO 8.1 Provide technical assistance for installed test And evaluation equipment. L  
(L) - Limited to those areas pertaining to  
FDPMU operations and support.

NCO 8.2 Perform the test and evaluation functions set forth in the appropriate test plans. L  
(L) - Limited to those areas pertaining to FDPMU operations and support.

**NCO 10 PROVIDE EMERGENCY/DISASTER ASSISTANCE.**

NCO 10.4 Provide disaster assistance and evacuation. L  
(L) - Limited by mission, staffing, logistics availability.