

**DEPARTMENT OF THE NAVY  
COMMANDER NAVAL SURFACE FORCE  
U.S. ATLANTIC FLEET  
NORFOLK, VIRGINIA 23511-5215  
AND  
COMMANDER NAVAL SURFACE FORCE  
U.S. PACIFIC FLEET  
SAN DIEGO, CALIFORNIA 92115-5490**

**COMNAVSURFLANT/PACINST 3502.2E  
CNSL N811/CNSP N8A  
17 DECEMBER 1999**

**COMNAVSURFLANT/COMNAVSURFPAC INSTRUCTION 3502.2E**

Subj: SURFACE FORCE TRAINING MANUAL

Ref: (a) COMNAVSURFLANT/COMNAVSURFPACINST 3502.3 (SURFTRAMAN Bulletins)  
(b) NWP 1-03.3A (Rev. A) (Status of Resources and Training System (SORTS))  
(c) COMNAVSURFPACINST 3501.2G/COMNAVSURFLANTINST 3500.7D (SORTS Readiness Reporting)

1. **Purpose**. To promulgate a revised Surface Force Training Manual to be used by all ships, staffs, and units of the Naval Surface Forces, U.S. Atlantic and Pacific Fleets.

2. **Cancellation**. COMNAVSURFLANT/COMNAVSURFPACINST 3502.2D

3. **Revision**. This instruction should be reviewed in its entirety. This revision includes significant changes to the plan for ships' basic training. These changes include a shorter but more flexible basic training phase, a new Engineering Qualification (E-Qual) program, and an enhanced role for the ship's ISIC and CO in controlling the need for and extent of training during the IDTC as well as an emphasis on Objective Based Training and war-fighting proficiency.

4. **Discussion**

a. This instruction provides guidance for the conduct of the Surface Force Training Program for all ships and units of the Naval Surface Forces, U.S. Atlantic and Pacific Fleets.

b. Reference (a) is comprised of Surface Force Training Bulletins. This companion document provides NAVSURFLANT and NAVSURFPAC with mission area related training information and guidance and proposed FXP exercises appearing in Appendix A of this manual.

c. The reporting of individual unit readiness is accomplished according to references (b) and (c). This instruction contains amplifying readiness reporting information.

d. To permit regular updates to the Appendices of this manual, non-policy changes may be approved jointly by the Assistant Chiefs of Staff (N8) on each staff by appropriate notice.

e. This Manual may be cited by its short title: SURFTRAMAN (STM)

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The following is a list of pages in effect. "0" indicates the original as printed in this edition.

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PAGE	CHANGE NUMBER	PAGE	CHANGE NUMBER
i through xii	0		
1-1-1 through 1-1-2	0		
1-2-1 through 1-2-2	0		
1-3-1 through 1-3-2	0		
1-4-1 through 1-4-2	0		
2-1-1 through 2-1-2	0		
2-2-1 through 2-2-4	0		
2-3-1 through 2-3-4	0		
2-4-1 through 2-4-2	0		
2-5-1 through 2-5-2	0		
2-6-1 through 2-6-2	0		
2-7-1 through 2-7-2	0		
3-1-1 through 3-1-4	0		
3-2-1 through 3-2-2	0		
3-3-1 through 3-3-4	0		
4-1-1 through 4-1-8	0		
4-2-1 through 4-2-12	0		
5-1-1 through 5-1-4	0		
5-2-1 through 5-2-8	0		
5-3-1 through 5-3-2	0		
A-1 through A-80	0		
B-1 through B-4	0		
C-1 through C-6	0		
D-1 through D-36	0		
E-1 through E-4	0		
F-1 through F-6	0		
G-1 through G-4	0		

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## TABLE OF CONTENTS

## SURFACE FORCE TRAINING MANUAL

	PAGE
LETTER OF PROMULGATION . . . . .	i
RECORD OF CHANGES . . . . .	vii
LIST OF EFFECTIVE PAGES . . . . .	ix
TABLE OF CONTENTS . . . . .	xi
CHAPTER 1 - GENERAL INSTRUCTIONS	
Section 1 – Introduction . . . . .	1-1-1
Section 2 – Responsibilities . . . . .	1-2-1
Section 3 – Naval Reserve Force Training and Readiness . . . . .	1-3-1
Section 4 – Feedback and Advisory Procedures . . . . .	1-4-1
CHAPTER 2 – SURFACE FORCE TRAINING	
Section 1 – Overview . . . . .	2-1-1
Section 2 – Command Assessments . . . . .	2-2-1
Section 3 – Training . . . . .	2-3-1
Section 4 – Certifications and Qualifications . . . . .	2-4-1
Section 5 – Training Readiness . . . . .	2-5-1
Section 6 – End of the Basic Training Phase . . . . .	2-6-1
Section 7 – Intermediate / Advanced Training Phase Guidelines . . . . .	2-7-1
CHAPTER 3 – SHIPBOARD TRAINING AND SCHOOLS PROGRAMS	
Section 1 – Shipboard Training Teams . . . . .	3-1-1
Section 2 – TYCOM Formal School Requirements . . . . .	3-2-1
Section 3 – Shipboard Training Administration . . . . .	3-3-1
CHAPTER 4 - UNIT COMPETITIONS	
Section 1 – Battle Efficiency and Command Excellence Awards . . . . .	4-1-1
Section 2 – Fleet Awards and Trophies . . . . .	4-2-1

**COMNAVSURFLANT/PACINST 3502.2E**

CHAPTER 5 - REPORTS

Section 1 – Training Readiness Reporting Guidelines.....	5-1-1
Section 2 – Training Readiness Reporting System.....	5-2-1
Section 3 – Training Reports Summary .....	5-3-1

APPENDICES

A – Exercise Requirements.....	A-1
B – Training Readiness Capping.....	B-1
C – Pre-approved Exercise Equivalencies .....	C-1
D – Formal School Requirements .....	D-1
E – Shipboard Training Enhancement Program (STEP) Course Requirements .....	E-1
F – Glossary .....	F-1
G – Index .....	G-1

## CHAPTER 1

## GENERAL INSTRUCTIONS

## SECTION 1

## INTRODUCTION

Ref: (a) COMNAVSURFLANT/COMNAVSURFPACINST 3502.3 (SURFTRAMAN Bulletins)

1101. **Executive Summary.** The Surface Force Training Manual is the primary source of Type Commander training policy and requirements information. It describes the Inter-Deployment Training Cycle (IDTC), with emphasis on the basic phase of training, and shipboard training procedures. Separate chapters detail Battle Efficiency, Command Excellence and other awards ships compete / qualify for during their training and operating cycles. The requirements for training related reports have been reduced to the periodic Training Report (TRNGREP), which is automated using the TYCOM Readiness Management System (TRMS) software. Appendices describe detailed exercise requirements by ship class, training capping rules, exercise equivalencies, formal schools requirements and courses available through the Shipboard Training Enhancement Program (STEP). This edition incorporates changes to Inter-Deployment Training Cycle (IDTC) that result from the CNO's IDTC Workload Reduction Initiative to increase the flexibility of Commanding Officers and ISICs to better tailor training to meet specific readiness and training requirements and to improve overall readiness in all mission areas."

1102. **Purpose.** The purpose of this manual is to provide the policy and minimum TYCOM requirements to assist the ISIC and Commanding Officer to develop a comprehensive training program that integrates a sequence of individual, team, and unit training evolutions in all mission areas applicable to the Naval Surface Forces, U.S. Atlantic Fleet and U.S. Pacific Fleet. It is the primary directive for planning, scheduling, and executing all training requirements within the Naval Surface Forces.

a. This manual includes formal training requirements applicable to ships and units of the Surface Forces. This manual does not address billet sequence training, NEC related training, or NTP identified training requirements. These requirements are adequately covered in BUPERS directives, EDVRs and NTPs.

b. Within available spending limits, the training requirements in this manual are those that the surface Type Commanders are committed to fund.

1103. **Organization.** This manual establishes common training requirements and procedures for the accomplishment of unit training within the Surface Forces of the Atlantic and Pacific Fleets. It will be jointly reviewed annually. Reference (a) provides information and guidance in the form of bulletins on selected mission area training and readiness matters in amplification of this manual. These bulletins are designed in a simple and easily changeable format, with each bulletin addressing a single topic.

1104. **Guidelines.** The primary goal of the IDTC is to ensure that deploying units are fully ready to perform all designated missions. The requirements established in this manual supports this goal and is predicated on the following guidelines.

a. **Exercise Requirements.** This manual consolidates all ship and unit exercise requirements of the Fleet Exercise Publications (FXPs), SURFTRAMAN Bulletins, and other training directives into a single document. Specific training requirements are identified and organized for each unit type and mission area. This manual makes additional provisions for:

(1) The conduct of a two-part Command Assessment of Readiness and Training (CART) whereby the ISIC and Commanding Officer can assess the ship's mission area proficiency, identify specific training strengths and deficiencies, and plan a tailored training program for the ship between deployments.

(2) The completion of required certifications as outlined in chapter 2.

(3) The conduct of a Final Evaluation Period (FEP) at the completion of the designated basic phase training period.

(4) The accomplishment of some exercises, such as live weapons firings, on a repetitive vice a cyclic basis to ensure proficiency is maintained.

b. Planning and Scheduling. The development and execution of a well-formulated unit training plan is essential to the successful maintenance of unit readiness and is the responsibility of each command. The planning and scheduling of inter-deployment training shall incorporate the requirements of this manual and will be in accordance with the modular scheduling guidelines of the appropriate operational commander.

c. Schedule Execution. Due to fiscal and scheduling limitations, the training opportunities that are available to units of the Naval Surface Forces are limited and must be optimized. Commanding Officers should make every effort to prepare for and execute the training provisions of their quarterly employment schedules, once approved. Additionally, whenever possible, Commanding Officers are enjoined to creatively pursue the parallel accomplishment of any unscheduled training opportunities that may arise. When outside services (e.g., aircraft, ships, observers, training ranges, etc.) are involved, units that are unable to participate in scheduled training events should notify their ISIC immediately so that these scarce training resources may be re-allocated to other units.

d. Assessment. The assessment of unit training accomplishment is an integral and important part of the Naval Surface Force Training Program because it provides the primary qualitative measurement of a unit's ability to satisfactorily perform its assigned mission areas.

e. Performance Based Training. The task of training will be facilitated through the use of OBT, which defines, in a single source, all afloat training objectives for each ship class. OBT is a library of mission specific tasks for all watch stations. OBT defines what must be trained, how it will be trained, and how well it must be performed.

f. Simulation Based Training. Simulation based training provides an effective complement to underway exercises. The use of onboard and other available training devices under the supervision of shipboard training teams shall be conducted whenever possible.

g. Reporting. Satisfactory completion of the training and exercise requirements contained in this manual is the primary basis for measuring unit readiness within the Naval Surface Forces. It is therefore important that subordinate commands report their training accomplishments in a timely and accurate manner, so that higher echelons of command can monitor individual unit readiness. The vehicle for reporting the completion of required training is the Training Report (TRNGREP), which is discussed in Chapter 5.

1105. Applicability. The provisions of this manual apply to all ships and units (e.g., TACRON Dets, ACU Boat and LCAC Groups, LCU's, BMU Beach Party Groups and Teams, PHIBCB Dets, EOD Dets, NCW Units) of the Naval Surface Forces. Distribution of applicable portions of this manual also includes Military Sealift Command military departments for use as desired when providing service support, and ships of the U.S. Coast Guard when conducting training. As new ship classes and ship systems are added to the Naval Surface Forces, new or revised training evolutions will be added to the appropriate sections of this manual.

## SECTION 2

## RESPONSIBILITIES

Ref: (a) OPNAVINST 3120.32C (Standard Ship's Organization and Regulations Manual)

1201. **Commanding Officer.** One of the principal responsibilities of the Commanding Officer is to ensure the development of a viable training program to train the ship. The Commanding Officer will:

a. Achieve, as a minimum, the training readiness objectives specified in the Surface Force Training Manual. To this end, the Commanding Officer shall periodically review and update the ship's long-range training plan to ensure proper planning and coordination with the ship's projected employment schedule.

b. Conduct a Command Assessment of Readiness and Training (CART) per Chapter 2, Section 2 of this manual and propose schedule modifications to help the ship conduct required training.

c. Tailor inter-deployment training objectives as determined by the CART process and approved by the ISIC.

d. Use every opportunity to achieve / maintain unit proficiency by use of onboard training devices.

e. Aggressively prepare ship systems and personnel for scheduled training events, including the accomplishment of all prerequisite training and systems level tests required to progress from basic level training to intermediate and advanced level training.

f. Evaluate and report primary and secondary mission area training readiness by:

(1) Establishing the formal training teams described in Chapter 3, Section 1 of this manual.

(2) Reporting completed training evolutions by TRNGREP per Chapter 5, Section 2 of this manual based on CO assessments during the basic phase of training and using the criteria for individual exercises called for in FXP's or SURFTRAMAN Bulletins in subsequent training phases.

(3) Requesting and reporting equivalence for an exercise when, in the CO's judgment, the exercise in question is adequately represented by the equivalency and the objectives of the exercise are met.

(4) Ensuring the timely and accurate reporting of the ship's exercise accomplishments and mission area training readiness per Chapter 5 of this manual.

f. Ensure internal administration of training in the command is well organized and is maintained per the guidelines in Chapter 8 of reference (a) and amplifying Fleet and TYCOM directives. The use of available IT (Information Technology) programs to maintain training plans, lesson guides, and attendance records is encouraged.

1202. **Immediate Superior in Command (ISIC).** The ISIC monitors and provides overall supervision for the conduct of each assigned unit's progress throughout the training cycle and participates in selected evolutions. Additionally, the ISIC will:

a. Ensure compliance of assigned units with the Surface Force Training Manual.

b. Assist Commanding Officers in the coordination of CART evaluations, to include scheduling assistance, liaison with the Afloat Training Group (ATG), and act as senior assessor during CART II.

**COMNAVSURFLANT/PACINST 3502.2E**

(1). Review and approve inter-deployment training plans of assigned units and monitor their execution. Coordinate unit requests for training services and coordinate scheduling of ship assist/certification visits.

(2) Conduct CART II and FEP, supported by ATG.

- c. Conduct required certifications of assigned ships as outlined in chapter 2.
- d. Approve Commanding Officers tailored training plan for the conduct of Tailored Ship Training Availabilities (TSTAs).
- e. Approve ship scheduling, coordinate schedule requests through the chain of command, and monitor basic phase exercise completion.
- f. Monitor the performance of assigned units participating in training. If progress is unsatisfactory, an ISIC recommendation shall be forwarded detailing specific shortcomings and additional training time requested.
- g. Ensure adequate re-evaluation of skills found to be unsatisfactory or incomplete.
- h. Monitor intermediate and advanced phase training through liaison with tactical squadron commanders/immediate operational commanders, OCEs for major fleet exercises, and battle group commanders/amphibious ready group commanders.
- i. Administer the Battle Efficiency Award program for assigned units.
- j. Provide final approval of exercise equivalency requests and endorse waiver requests.

1203. **Type Commander.** Responsibilities of the Type Commander include:

- a. Overall management of surface force training.
- b. Development of new or revised training evolutions, their publication through the appropriate FXP or other primary review authority, and implementation as training plan modifications.
- c. Identification of training support service requirements to be provided by other commands for surface units.
- d. Coordination of schedules and services to facilitate the routine execution of standard sequences of training and readiness evolutions (CNSL).
- e. Publication of training bulletins, as required, to announce training policy, new training requirements, and other guidance necessary to improve Surface Force training and readiness reporting.
- f. Annual review of the Surface Force Training Program.
- g. Coordination between TYCOMs to ensure ongoing training standardization.
- h. Assisting Commander, Naval Reserve Force (COMNAVRESFOR) and Commander, Special Warfare Command (COMSPECWARCOM) in identifying training support and service requirements for NRF and PC class ships and NCW units.
- i. Provide surface force training guidance to the Afloat Training Groups.

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## SECTION 3

## NAVAL RESERVE FORCE TRAINING AND READINESS

Ref: (a) COMNAVSURFRESFORINST 3502.1C (COMNAVSURFRESFOR Master Training Plan)

1301. **General.** The Naval Reserve consists of Ready, Standby, and Retired Reservists. Reservists in a pay status are called Selected Reservists (SELRES). Selected Reservists are organized into units with specific mobilization billets, generally on board active commands ("gaining commands") or as stand-alone units. Training of those units not assigned to Naval Reserve Force (NRF) ships may be accomplished at Reserve Centers or Readiness Commands, on board active ships or at the gaining command site, or as directed by higher authority during weekend Inactive Duty Training (IDT) periods and/or two week Annual Training (AT) periods. The establishment of a close working relationship between the parent command and their naval reserve unit(s) is required to maximize readiness for mobilization.

1302. **Training Philosophy.** A primary objective in the training of the SELRES is the integration of individuals and units with their active duty counterparts. This integration permits the SELRES to perform the same or similar functions as those personnel assigned to active duty and enhances their ability to perform their assigned mission when mobilized. To the maximum extent possible, commanding officers should work to foster a close working relationship with their counterpart reserve units by frequently communicating with them, coordinating the embarkation/debarkation of reserve unit personnel, and developing tailored training programs designed to optimize limited reserve active duty training and personnel qualification opportunities. To achieve these goals, commanding officers must recognize the inherent limitations of the Reserve training environment and develop innovative programs to overcome these limitations. Stand-alone reserve units will work in close coordination with their ISICs and supported/supporting commanders. Training of reservists will be conducted per reference (a).

a. Reserve Training Environment

(1) Inactive Duty Training (IDT) is accomplished two days per month, usually on the weekend; Annual Training (AT) is accomplished two weeks per year.

(2) Training for individual reservists must be sequenced, well orchestrated, well defined, and must account for inherent problems of discontinuity. Close coordination and liaison between the NRF ship CO/XO/Training Officer and the reserve unit SELRES Coordinator and Administrator (reserve unit CO/XO) are key to a successful reserve training program. Remember that these reservists are members of your command and most of these individuals do have previous active duty experience.

b. Personnel Qualifications (NRF Ships). NRF ship commanding officers are to assign all primary crew SELRES to Condition I and III watch stations. SELRES will use PQS to train for final qualification in these watch stations. Qualification time lines are as assigned by the commanding officer, commensurate with drill and annual training time available, present ship's employment, prior active duty, and PQS qualifications documented in service record page 4's. Once PQS qualified for their Condition I and III assignments, SELRES may undertake other PQS, such as inport watch stations and ESWS. General DC and 3M qualifications should be accomplished early in the SELRES' tour of duty in conjunction with initial Condition I and III watch station PQS. This watch station assignment/job accomplishment policy applies only to the NRF primary crew SELRES and not to the SELRES who perform one time annual training in support of fleet operations.

c. Active Ship Augment Unit SELRES Training. Active commands must provide on-scene evaluation to ensure the adequacy of reserve training programs. NRF ships also train Ship Augment Units (SAUs). SAU's are normally located at reserve centers located out of the local geographical site to the assigned NRF ship (Example: A SAU for USS WADSWORTH might be located in Tucson, AZ). If

## COMNAVSURFLANT/PACINST 3502.2E

assigned, the goal of each SAU is to drill on board their gaining commands one weekend per quarter (this limitation is largely due to reserve funding constraints); other monthly IDTs are conducted at reserve centers or other training facilities. These units train to Reserve Billet Training Plans vice NRF ships' training plans.

(1) Each reserve unit is required to determine the applicable billet qualification requirements from its Reserve Billet Training Plan (RBTP), if issued, through liaison with the active command.

(2) Reserve unit commanding officers can sign off interim qualifications for unit members who complete all of their training requirements. However, final qualifications must be approved by active unit commanding officers during IDT/AT.

(3) Once certified, reserve personnel should be enrolled in an appropriate post-qualification program. Certification is indicated on the AT check-off list (CHNAVRES 1571/1).

(4) IDT is a weekend training period that is supported by a host ship. In addition to initial shipboard orientation, training should be organized to include on-the-job and formal training in equipment operation and maintenance, and damage control and watch standing. Embarked personnel should be fully integrated into the ship's daily and watch routines.

d. Annual Training (AT) may include inport or underway training based on ship operating schedules. Training should be tailored to the circumstances at hand. If the entire AT period is inport and the ship is undergoing major maintenance, the use of shore based training facilities and/or other ships for equipment operation and watch station training is encouraged. Ship schedules will reflect the particular ship's employment as Naval Reserve Training (NRT) for underway training or Reserves Embarked (REM) for inport training.

e. Other SELRES training. All reservists are tasked to meet the requirements of their billet-specific Individual Training Plan (ITP). In addition, gaining commands will ensure that each reserve unit receives real-world tasking (either peacetime contributory support or mobilization readiness) in support of their mission, to the extent possible. Stand-alone units will maintain their unique level of expertise consistent with unit mission and current funding.

1303. **Naval Reserve Force (NRF) Training Requirements.** The specified wartime mission for NRF units requires that training requirements remain the same as for active duty counterparts to provide a benchmark for measuring the actual status of NRF readiness. Training objectives for NRF units are designed with the unique manning capabilities of these units considered. Naval Reserve Force unit training objectives are delineated in subsequent chapters of this manual, with departures from active duty counterpart objectives specifically indicated.

## SECTION 4

## FEEDBACK AND ADVISORY PROCEDURES

1401. **General.** This section provides for a Surface Force Training Manual feedback/response/advisory system whereby individual units, ISICs, training commands and the TYCOMs may routinely communicate in a forthright and constructive interchange. Because of the continuing evolution of ship types and classes, warfare capabilities, and associated tactics, the TYCOM-directed training program must remain dynamic. In addition, standardization of Naval Surface Force training must be maintained throughout the Navy. New training evolutions, revisions to existing evolutions, and more efficient training sequences must continually be developed and implemented.

1402. **Feedback**

a. Any unit in the chain of command, as well as any activity that is included on the distribution of the Surface Force Training Manual either as a service provider or a supporting activity, may initiate (preferably by message) a query about any aspect of the surface force training program or make a recommendation for its improvement. The following standard message format is provided:

FM (Submitting Command)  
 TO (ISIC)  
 INFO (Chain of Command)  
     COMNAVSURFLANT NORFOLK VA//N81/N811//  
     COMNAVSURFPAC SAN DIEGO CA//N8/N83//  
 (Classification) //N03502//  
 MSGID/GENADMIN/(Originator)//  
 SUBJ/SURFTRAMAN FEEDBACK REPORT  
 REF/A/DOC/CNSL-CNSP/(DATE OF THIS INSTRUCTION)  
 AMPN/REF A IS CNSL-CNSPINST 3502.2C SURFTRAMAN CH 1 SEC 4  
 REF/B/(As necessary)  
 POC/(Point of contact)  
 RMKS/1. Briefly state problem or query.  
 2. Recommend corrective action.//  
 BT

b. Upon receipt of additional ISIC/chain of command comments or by a simple "REQ TAKE REF A FORAC" message, the applicable Type Commander will investigate the proposal and provide a reply using the same subject line. If the issue raised has application to other ships, ISIC should so indicate in comments.

c. To help maintain standard procedures and training policies in both fleets, feedback responses originated by one Type Commander that affect previously agreed upon standards (e.g., exercise requirements, applicability to ship classes, exercise periodicities, capping criteria, readiness reporting guidelines, etc.) will be coordinated with and will include the other Type Commander as an info addreee.

d. Feedback responses originated by one Type Commander that do not affect agreed upon standards (e.g., obvious data base errors or omissions) need not include the other Type Commander as an info addreee.

1403. **Advisories**

a. To provide advance notice of changes to the Surface Force Training Manual, amplifying guidance, or other general information affecting the Surface Force Training Program, each Type Commander may originate advisories, either by message or notice, as appropriate.

**COMNAVSURFLANT/PACINST 3502.2E**

b. Each Type Commander will include the other as an info addee on all Surface Force Training Advisories to allow further dissemination of their content, as desired.

CHAPTER 2

SURFACE FORCE TRAINING

SECTION 1

OVERVIEW

Ref: (a) CINCPACFLT/CINCLANTFLTINST 5451.1 (Afloat Training Organization)

2101. **Overview.** The Commanders-in-Chief, Atlantic and Pacific Fleets, have the primary responsibility for the training of naval forces provided to the Unified Commanders. Under the CINCs' overall direction, primary mission area tactical training is executed by the Type Commanders in the basic phase of the training cycle and by the numbered fleet commanders in the intermediate and advanced phases of the training cycle in accordance with reference (a). The training cycle begins with CART I near the middle of deployment. CART I is a ship's self-assessment of operational proficiency, formal school training, team training, inspections/assists and material/equipment status. CART II, an ISIC assessment of unit proficiency, is notionally conducted after the first major maintenance availability following deployment and is the beginning of the basic phase. CART II is used to determine what training is necessary during the Tailored Ship's Training Availability (TSTA). CART is discussed in greater detail in Section 2 of this chapter. The ISIC's Final Evaluation Period (FEP), marks the end of the basic phase. The intermediate and advanced phases of the training cycle occur under the Numbered Fleet Commander (NFC) during which operational proficiency and combat readiness is reinforced through underway exercises and dedicated advance tactical training ashore. Figure 2-1-1 provides a graphic representation of the TTS cycle.

DEPLOY	MAINT	BASIC	INTERMEDIATE	ADVANCED
C A R T  I		C T S F A S P E R T E P T A C II A L T Y	M C E O F M E P X T U E X	J T F E X

Figure 2-1-1 THE TTS TRAINING CYCLE

2102. **Phases of Training**

a. **Basic Training.** The TYCOMs are responsible for the conduct of Basic Phase training. The focus is on unit-level training emphasizing basic command and control, weapons employment, mobility (navigation, seamanship, damage control, engineering, and flight operations) and warfare specialty. Upon completion of the basic phase, a unit is expected to be proficient / (M2) in all mission areas. Basic Phase training is discussed in Section 3 of this chapter.

b. **Intermediate Training.** The numbered Fleet Commanders are responsible for conduct of Intermediate phase training. The focus in this phase is on warfare team training and initial multi-unit operations under the traditional CWC concept or a modified concept of joint operations. During this phase, ships begin to develop warfare skills in coordination with other units while continuing to maintain unit proficiency.

c. **Advanced Training**. The focus of Advanced Phase training, also under the numbered fleet commander, is to continue to develop and refine integrated battle group warfare skills and command and control procedures needed to meet the supported CINC's specific mission requirements. Training objectives are tailored to force structure, capabilities, and missions tasked by the supported CINC (i.e. CVBG, ARG/MEU (SOC) warfare skills). Training deficiencies noted during the Intermediate Phase training are also factored into the Advanced Phase syllabus.

d. **Repetitive or Proficiency Training**. A specific set of training exercises is of particular importance in maintaining operator or team proficiency. To maintain these essential skills, exercises (including live weapons firings or exercises requiring live services) are identified by mission area in Appendix A for repetitive (proficiency)

## SECTION 2

## COMMAND ASSESSMENTS

2201. **General.** There are three command assessments conducted during the course of a complete employment cycle. CART I and II, a two-phase process intended to be a comprehensive review of training readiness; and FEP, an ISIC assessment of the unit's readiness to proceed to the intermediate and advanced phases of the IDTC. CART I is conducted by the ship's Commanding Officer and commences around mid-to-end of deployments of four months or longer. CART II is an ISIC assessment, supported by ATG, conducted once per IDTC or not-to-exceed 30-month intervals for ships not in a regular deployment cycle. It is normally conducted after completion of regular scheduled maintenance periods. The focus is to validate existing strengths in the training team organization and watchteam performance and can be used to assist the Commanding Officer in establishing training priorities and requesting training assistance.

2202. **CART Procedures.**

a. **CART I.** Command Assessment of Readiness and Training, Phase I, is conducted before the end of each major deployment for active units homeported in CONUS or MIDPAC. Ships homeported as part of the Forward Deployed Naval Forces (FDNF) will conduct CART I four months before (D) SRA/(D) PMA. Non-deploying units will conduct CART I at not-to-exceed 30-month intervals as scheduled by their ISIC.

(1) **Step One.** Review formal school training status/needs:

(a) Review and identify personnel shortfalls (critical NEC, billets) via EDVR/ODCR. This review should be completed well enough in advance to provide a timely heads-up to support activities ashore for scheduling training such as school quotas, training assists and inspections.

(b) Identify individual school/team training requirements and request quotas.

(c) Identify TADTAR requirements and request augmentation if necessary.

(2) **Step Two.**

(a) Review basic phase/repetitive elements for material readiness oriented needs that will potentially become part of the work-up requirements (e.g., UNREP SQT (LOG-1-SF/LOG-2-SF)).

(b) Identify potential special training requirements and areas where crew performance is especially strong or weak.

(c) Identify any sensor, weapons system, ship system additions or modifications that will take place during SRA/PMA/UPK periods that will require formal training for existing crew members or enroute training for new personnel. (See paragraph 2109 a.)

(d) Conduct initial material/equipment assessment to determine equipment condition. Reviews shall be conducted using a number of existing programs, such as Preventive Maintenance System, combat systems checkout employing OCSOT, systems testing, or conduct of safety and zone inspections using ship-tailored NAVSAFECEN safety review checklists and proposed Availability Work Package.

(e) Keep ISIC informed of any issues surfaced in CART I that may impact subsequent training.

(f) Schedule an SBTT course tailored to own ship's needs as early as possible.

## COMNAVSURFLANT/PACINST 3502.2E

(3) Step Three. Schedule CART II eight to ten weeks after the completion of the maintenance availability.

(4) Step Four. Review current PQS program and watchbill:

(a) Review current watch-bills for anticipated losses of qualified watchstanders. Make PQS assignments as necessary to maintain continuity after post-deployment leave and upkeep period.

(b) Review current PQS materials on hand; order new books as necessary.

(5) Step Five. Validate/modify ship's training plan for the IDTC based upon assessment results. Request ATG assistance as desired.

b. CART II. CART II is a robust, performance based assessment of a unit's readiness in each mission area except the amphibious, mine and salvage mission areas. It may include underway days depending upon the ISIC and Commanding Officer's desires. By assessing material, administrative, and training proficiency based on demonstrated mission area proficiency, CART II helps to identify areas that need further training during TSTA. The ship's tailored training plan should be revised as necessary after CART II and, with ISIC approval, will become the basis for follow-on tailored ship's training during the basic phase.

(1) Step One. Conduct self-assessment using CART II checklists and other directives.

(2) Step Two. Mission area team proficiency assessment. ATG, in PACFLT; and ISIC and ship, in LANTFLT; are responsible for coordinating support services required for proficiency assessment in each area. To the maximum extent possible, watch teams assessed should include those crew-members who will remain on board through the next deployment. Condition III watch teams shall be assessed. CART II will include an ISIC review of the ship's self-assessment of its readiness to execute its training plan.

(3) Step Three. Conduct the following as appropriate to individual ship type and mission area.

(a) ISIC debrief CO.

(b) The CO and ISIC revise the tailored training plan as needed. This will permit early resolution of schedule conflicts, determination of TSTA/specialty warfare area training length and verification of support service availability.

(4) Step Four. Reset of the ship's exercise database is not required, unless the ISIC feels that resetting particular exercises is desired based on conclusions concerning the ship's readiness. To avoid unnecessary expenditure of weapons and ammunition, ISICs should use judgment concerning resetting live fire exercises if the ship still has proficiency. Live fire exercises involving expensive ordnance will not be scheduled earlier than necessary to support the ship's normal preparations for deployment, even if reset to M-4 during CART II.

(5) Step Five. Submit scheduling inputs to reflect the training plan.

2203. **Pre-Maintenance/Deactivation**. Ships will not normally conduct CART II prior to entering extended maintenance or deactivation period. If special circumstances or a protracted period of operations following a deployment will delay the beginning of the maintenance period, the ship may conduct CART II prior to entering the availability. In these circumstances, ships will continue to meet repetitive readiness requirements until 60 days before the availability or 30 days before deactivation start. Some units may be scheduled to participate in evolutions during the 60 and 30-day pre-maintenance/pre-deactivation periods that will provide the opportunity to conduct repetitive exercises. Ships should maintain a continuing training program to ensure operational proficiency while using assets (i.e., fuel, ordnance) economically during this period. Ships will maintain readiness reporting throughout the availability. Upon entering a pre-strike period for deactivation, ships will cease reporting.

2204. **Final Evaluation Period (FEP)**. FEP represents the culmination of the Basic Phase of training and should demonstrate the ship's ability to conduct multiple simultaneous combat missions and support functions and to

survive complex casualty control situations under stressful conditions. During FEP the ship demonstrates the required levels of tactical proficiency and warfare knowledge to proceed to the intermediate phase of the inter-deployment cycle as well as the ability to sustain readiness through self-training. Because each ship executes a unique TSTA process that is driven by a variety of variables (residual crew proficiency, CART II performance, TSTA performance, nature of upcoming deployment, OPSKED perturbations, etc.) it is more realistic and efficient to develop a FEP syllabus tailored to each ship's requirements than to have a standard package. Direct oversight and active participation in the work-up process places the ISIC in the best position to define the appropriate combination and sequence of FEP evolutions/drills. Previous demonstration of the capacity to perform multiple simultaneous mission areas under stressful conditions should be considered in determining the scope and duration of FEP.

2205. **Forward Deployed Naval Forces (FDFN)**

a. **CART I**. FDFN ships conduct CART I on return from deployment or as determined by ISIC in conjunction with CO and ATG.

b. **CART II**. FDFN ship CART IIs are conducted at a time agreed to by CO, ISIC, and ATG WESTPAC with appropriate regard for the availability of assessment teams. CART II must be done early enough to support tailoring/planning of any follow-on TSTAs and, if possible, should be done sufficiently after CART I to allow time to correct deficiencies. It should also be conducted as soon as practicable after completion of SRA/PMA. FDFN ship CART IIs may be additionally tailored to permit limited training team "on-the-spot-training" to address obvious discrepancies when TSTAs may not be scheduled early enough to correct a discrepancy prior to follow-on contingency operations. The final product of a FDFN ship's CART II will be a general IDTC plan agreed to by CO, ISIC and ATG.

c. **Final Evaluation Period (FEP)**. FDFN FEPs are designed by the ISIC, with ATG WESTPAC support, and conducted at not-to-exceed 30-month intervals.

2206. **Reports**.

a. No reports concerning CART I or CART II are required.

b. FEP results will be reported by the ISIC at the end of Basic Phase Training by a simple message report stating the date FEP was completed and that the ship is ready to proceed to intermediate and advanced training. ISIC will indicate if there are any deficiencies that require remedial action and planned course to correct. The ship will file the necessary TRNGREPs reflecting the exercise completions that would verify the attained M-2 readiness goals in accordance with the mission area M-rating calculation described in paragraph 6203.

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## SECTION 3

## TRAINING

Ref: (a) CINCPACFLT/CINCLANTFLTINST 4790.3, Vol 5. (Joint Fleet Maintenance Manual)

2301. **Shipboard Training Teams.** The shipboard training teams, described in Chapter 3, Section 1 of this manual are the primary agents involved in shipboard training. Shipboard training teams shall play an active, aggressive role in the preparation and execution of training evolutions. Training for watch teams shall be conducted using on-board trainers and elementary basic phase training exercises during sea trials, CSSQT, and other underway periods. As feasible, inport training should be planned and scheduled to take maximum advantage of shore based mobile team training devices and participation in regional inport training events.

2302. **Training during Pre-Maintenance Availability Periods.** Training emphasis during the pre-overhaul and overhaul period should be focused on the following areas:

a. Developing / Executing a training plan that includes:

- (1) Shore-based combat systems team training.
- (2) Formal schools training.
- (3) Afloat Training Group assistance visits.
- (4) Continuous training to maintain operator proficiency.
- (5) Shipboard Training Team Course
- (6) Watchstander / Watch Team Training
- (7) Personnel Qualification

b. If possible, a formal safety survey by the Naval Safety Center should be scheduled before overhaul. Special emphasis should be given to safety training in the potential hazards and safety requirements of the industrial environment.

c. Quality Assurance (QA) training requirements, detailed in reference (a), shall be reviewed and appropriate training conducted.

2303. **Training During Maintenance Availabilities.** To meet the overall objective of the basic phase, ships must plan and accomplish as much individual and team training as possible during major maintenance availabilities. The specific training guidelines for ships in depot level major maintenance availabilities are detailed in the following subparagraphs.

a. **Formal Schools Training.** The goal in each mission area should be to complete as much of the required formal schooling specified in Appendix D as possible by the end of the maintenance availability. Emphasis should be placed on individual and team training required to prepare for the initial underway period and on the completion of all school requirements to support underway training availabilities.

(1) Particular emphasis should be placed on a thorough review of the Ship's Overhaul Modernization Manning and Training Improvement Program (SOMMTIP) document produced by NAVSEA.

## COMNAVSURFLANT/PACINST 3502.2E

The primary purpose of this document is to highlight manning changes and training requirements generated by equipment installed or modified during the availability.

(2) Applicable training OPORDs and checklists should be reviewed to ensure all training school requirements are completed.

b. Watchstander/Watch Team Training. In addition to formal school team training, ships in major maintenance availabilities should explore opportunities to cross deck individuals and teams to other operating ships, where appropriate, to maintain operational proficiency and to correct training deficiencies. ISICs can assist in this process by formally designating a school/training ship on a rotating basis to serve as a training platform for ships in overhaul or undergoing major maintenance.

c. Personnel Qualifications. Shipboard PQS programs should be reviewed to identify new equipment and systems that require PQS coverage, to implement PQS standards for new personnel, and to determine required watch station qualifications in preparation for propulsion plant light-off and sea trials. The projected watchbill is a powerful management tool to validate current PQS/training levels.

d. Shipboard Training Teams. Commanding Officers should review the organization of shipboard training teams required by Chapter 3 of this manual, and take action to maintain teams for post-overhaul training. Teams must be established and functioning before the end of overhaul. Attendance of the ATG Shipboard Training Team Course early in the overhaul is strongly encouraged.

### 2304. New Construction Shakedown Training Requirements

a. The purpose of shakedown training is to ensure that a ship is safe to operate. Shakedown training occurs between commissioning and Post-Shakedown Availability, or commissioning and Combat Systems Ship Qualification Trials (CSSQT) for ships so scheduled. It forms the first step in the TSTA/FEP process leading to operational employment for new construction ships.

b. Shakedown training will comprise basic level training in the following areas:

- (1) Damage control
- (2) Navigation
- (3) Seamanship
- (4) Propulsion engineering
- (5) Communications
- (6) Medical
- (7) Aviation

c. Shakedown training is the responsibility of the ISIC. The specific shakedown exercise syllabus will be determined during crew certification. In the case of a new construction ship, the ATG on the coast where the ship is built will provide training as requested by the Commanding Officer or ISIC.

d. CART II may be conducted prior to sail away depending on ship and ISIC evaluation of training requirements and scheduling needs.

2305. Basic Phase Training. The overall training objective of the basic phase is to build individual and watchteam knowledge and warfighting skills. The eight to ten weeks following completion of the

maintenance period is the Commanding Officer's time. Training following CART II, leading up to FEP, is a Tailored Ship's Training Availability (TSTA). The need for, length and number of phases of TSTA training will be determined by the Commanding Officer with ISIC concurrence. It will be from one to seven weeks in length, with ATG providing assistance as requested by the Commanding Officer. Continuous certification applies throughout TSTA. Progress is measured by a declining list of training objectives in both training team and watch team proficiency. The purpose of TSTA is to prepare the ship to proceed to the intermediate and advanced phases of training.

2306. **Specialty Training.** Salvage training, mine warfare training, amphibious warfare training and special operations training may be integrated into TSTA training or conducted as a separate evolution as determined by each Type Commander based on the particular training resources available.

a. Amphibious Warfare Specialty Training consists of post-maintenance or inter-deployment specialized warfare training for amphibious class ships. The objective of this specialized training period is to develop team skills and afford the cross-training opportunities necessary to accomplish coordinated and timely surface and air ship-to-shore movements (day/night) in the amphibious assault environment.

b. MCM/MHC Warfare Specialty Training is designed to focus and refine the mine countermeasure skills of surface mine countermeasures ships. The goal is to develop an organic training capability that will improve team proficiency prior to MIW evaluation during MIW Specialty Training, fleet operations, and integrated mine countermeasure operations.

c. Salvage Training (SALVTRA) consists of specialized maritime diving and salvage training for salvage ships. The objective of this specialized training is to ensure that all salvage ships are trained and ready to respond immediately and effectively to any diving and salvage mission. Specialized exercises to be conducted during this period of training will consist of those selected from the listing in Appendix A.

2307. **Basic Training for Forward Deployed Naval Forces (FDNF)** The unique situation of FDNF ships, characterized by higher OPTEMPO and often complex operations without respect to particular training phases, requires greater flexibility in adapting the notional tactical training progression to their use. Since FDNF ships do not have a traditional IDTC, basic phase training shall normally be conducted every 30 months. FDNF ship CART IIs may be additionally tailored to permit limited training team "on-the-spot-training" to address obvious discrepancies when TSTAs may not be scheduled early enough to correct a discrepancy prior to follow-on contingency operations. As with CONUS based ships, the key elements of the Basic Phase will be the completion of a robust, ATG supported CART II, FEP, and completion of required certifications, including E-Qual.

2308. **Afloat Training Group (ATG).** The ATG is available to assist ISICs and Commanding Officers throughout the IDTC. Commanding Officers are encouraged to establish liaison with the ATG as early as possible in the process. Training specialty areas consist of combat systems, engineering, damage control, medical, seamanship, navigation, aviation, selected logistics, and administration. A complete menu of ATG training available to ships along with check sheets and training aids can be found on the ATGLANT ([www.atgl.spear.navy.mil](http://www.atgl.spear.navy.mil)) and ATGPAC ([www.atgpac.navy.mil](http://www.atgpac.navy.mil)) websites. Additional training information can be obtained from the Navy Training Synergy Database at ([www.namts.com/catalog/database.asp](http://www.namts.com/catalog/database.asp)).

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## SECTION 4

## CERTIFICATIONS AND QUALIFICATIONS

- Ref: (a) COMNAVSURFLANT 4700.4A (Fleet Introduction Handbook)  
 (b) COMNAVSURFLANT/COMNAVSURFPACINST 3540.12 (Engineering Operations Assessment, Training, and Qualification for Conventionally Powered Surface Ships)  
 (c) COMNAVSURFPACINST 8820.1E/COMNAVSURFLANTINST 8820.1H (Cruise Missile Qualification/Certification Program)  
 (d) OPNAVINST 3130.6A (Naval Search and Rescue Standardization)  
 (e) FXP-5  
 (f) CINCPACFLT/CINCLANTFLTINST 3150.1(Diving Operational Readiness Assessment Program)

2401. **Crew Certification (CREWCERT).** The crew certification program is a two-phased process designed to measure the readiness of a ship as it approaches the end of the construction, overhaul, modernization, or conversion period. During the crew certification process, ships are evaluated by their ISIC to determine whether ship's training programs are adequate to support minimum underway watch-standing requirements during sea trials. Phase I of the crew certification focuses on written and oral examinations, the overall quality of the ship's training organization, and training accomplished during overhaul. Phase II consists of a shipboard evaluation of watchstanders' abilities as determined during simulated underway conditions.

a. Crew certification is required for all ships of new construction. Those ships undergoing extended conversion or modernization will use this instruction for conducting crew certification. Amplifying guidance is provided for NAVSURFLANT ships in reference (a). Crew certification for ships that have not been underway for a period of six months or more is encouraged and is at the discretion of the ISIC.

b. The major emphasis of crew certification is not training records or administrative procedures. Rather, emphasis is to be placed on review of the ship's overall training program, the ability to provide a minimum number of qualified crewmembers to support sea trials and whether these objectives are being satisfied. Review of emergency bills and ship's organization will also be included.

c. Applicable Personnel Qualification Standards (PQS) will be used wherever possible to qualify watchstanders. Those underway watches not covered by PQS should be qualified by locally developed Job Qualification Requirements (JQR).

d. Ships are expected to accomplish these requirements without support from other ships.

2402. **Certifications/Qualifications/Evaluations.** The following should be completed prior to entering the intermediate phase of training:

a. **Engineering Qualification (E-QUAL).** E-QUAL is conducted by the ISIC (qualifying authority), supported by the Afloat Training Group in accordance with reference (b).

b. **Communication Readiness Certification (CRC).** CRC is an ISIC conducted event to occur during the Basic Training Phase or, for those ships not regularly deploying, not-to-exceed every 30 months. The successful completion of the CRC is required for the Command and Control Excellence Award (see paragraph 4106). The CRC will begin with a Communications Readiness Assessment (CRA) in CART II during which the ship's self assessment is reviewed by ISIC. (not necessary to tell the Captain what to train to, he/she will know) The CRC will culminate with a Comprehensive Communications Assessment (CCC-19-

**COMNAVSURFLANT/PACINST 3502.2E**

SF). The CRA and the CCC-19-SF will be conducted by ISIC with assistance as necessary from ATG, NCTAMS/NCTS.

c. Cruise Missile Tactical Qualification (CMTQ). CMTQ is conducted by the ISIC, as Senior Inspector, with technical assistance from ATG on an interval not to exceed 24 months. Details are contained in reference (c).

d. Surface Unit Search and Rescue Evaluation. Reference (d) requires all surface ships and surface rescue swimmers be evaluated every inter-deployment cycle or every 24 months. For SURFLANT ships, the local ATG is designated the TYCOM evaluation authority. For SURFPAC ships, FTC San Diego is the evaluation authority for San Diego ships and the local ATG is the evaluation authority in other areas.

e. Naval Surface Fire Support Qualification. Conducted in accordance with reference (e) and applicable SURFTRAMAN Bulletins. Atlantic Fleet units conduct qualification during intermediate phase.

f. Diving Operational Readiness Assessment (DORA). ISIC assessment of unit's diving program. Conducted in conjunction with annual Salvage Training and Readiness Evaluation (SALVRTE), in accordance with reference (f).

## SECTION 5

## TRAINING READINESS

2501. **SORTS Training Readiness Reporting.** Appendix A of this manual contains a comprehensive training exercise syllabus for each ship type that summarizes, by mission area, all capabilities a ship is expected to demonstrate during the standard training and readiness cycle. Appendix B prescribes capping criteria that may cause normal readiness reporting to be overridden. Appendix C contains Type Commander pre-approved exercise equivalencies.

2502. **Naval Reserve Force (NRF) Readiness Criteria.** NRF units are generally tasked with the same training requirements as their active duty counterparts. However, due to limited days underway with selected reservists embarked, and limited availability of inport trainers, these units may experience training degradation beyond their control. Accordingly, NRF units may complete the advanced unit phase of training without achieving C1/M1 readiness in all primary mission areas. The mission area readiness ratings listed in Figure 2-5-1 specifically prescribe the minimum acceptable standards for NRF units at the end of advanced training/during repetitive (proficiency) training.

Selective Minimum Readiness Standards

<u>Mission Area</u>	CRUDES	AMPHIB	MIW
AMW	M3	M2	
AW	M2		
C2W	M2		
CCC	M3	M3	M3
MIW			M2
MOB	M2	M2	M2
SUW	M2		
USW	M2		

**Figure 2-5-1. NRF UNIT ADVANCED PHASE READINESS**

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## SECTION 6

## END OF THE BASIC PHASE

2601. **General.** By the end of the basic phase, ships should be substantially proficient / (M-2) in all mission areas and have demonstrated the ability to sustain that readiness through its training team organization. Watch teams and training teams shall have been assessed by the ISIC.

2602. **Training Level.** A ship's training level is a combination of the proficiency of its watchstanders to perform their duties and the ability of the ship to sustain that training through its training team organization. The following relate to Figure 2-6-1 which is intended as a tool to assist ISICs and Commanding Officers in their evaluation of a ship's training level.

a. Training Level. Training Levels I through V can be shown in the following table as the intersections of Training Team Performance and Watchstander Proficiency, using the definitions provided below.

		Training Team Proficiency			
		Low	High	High	
Watch Team Proficiency	Low	Level	C	B	A
	High	C	V	IV	III
	B	IV	III	II	
	A	III	II	I	

Figure 2-3-1 Training Levels

b. Watchstander Proficiency:

(1) Level A: Watchstanders able to consistently react correctly during sustained, stressful operations that involve transition to an increased level of readiness.

(2) Level B: Watchstanders able to correctly perform routine duties commensurate with their rate/rating and watchstation with minimal prompting.

(3) Level C: Watchstanders assigned to all required watch stations but proficiency is weak.

c. Training Team Proficiency:

(1) Level A: Training Team able to effectively conduct scenario based training, integrated with one or more other teams. Able to effectively plan, execute, and accurately assess and debrief their participation in a complex, stressful multi-mission scenario.

(2) Level B: Training teams able to effectively conduct single mission area scenario based training..

(3) Level C: Training teams in place and qualified for the positions they are observing. Ability to conduct scenario-based training; i.e., plan, brief, execute and debrief, is weak.

**COMNAVSURFLANT/PACINST 3502.2E**

2603. **Basic Phase Completion**. In addition a ship shall have demonstrated/completed:

- a. Demonstrate proficiency in all training objectives outlined in the ship's tailored training plan during which a minimum of Training Level II was attained.
- b. Required qualifications, evaluations and certifications as outlined in paragraph 2401
- c. The ability to employ installed sensors and weapons simultaneously against multiple, non-cooperative targets in a multi-threat coordinated environment (e.g., in cooperation with supporting aircraft or supporting units below the battle group level).
- d. The ability to operate with a General Quarters team; Condition III watch team(s)/section(s);and CORE/FLEX (if appropriate).
- e. The ability to control battle damage and expeditiously effect repairs within the designed capability of the unit.
- f. The ability to conduct both day and night underway replenishment/rearming as applicable.
- g. Specialized amphibious assault training, if applicable. Amphibious assault ships and units will have satisfactorily demonstrated the required level of proficiency in all areas of amphibious assault operations, both day and night.
- h. Specialized logistic support training, if applicable. Combat logistics force ships will have demonstrated proficiency by meeting established standards in all phases of replenishment delivery, both day and night.
- i. Specialized salvage, and mine warfare training, if applicable. Salvage and mine warfare units will have demonstrated appropriate warfare operations in an observed environment to a degree to support contingency and special operational tasking. Upon completion of MIW evaluation and FEP, MCM ships will be ready to begin integrated Surface MCM (SMCM), Explosive Ordnance Disposal MCM (EOD MCM), and Air MCM (AMCM) in an MCM group environment.
- j. The preponderance of the formal schooling required by Appendix D in each assigned mission area. Units should continue to coordinate quotas for schools with their long- and short-range training plans.
- k. Watchstanders should be fully qualified at their assigned watch stations.
- l. All combat systems/mobility/operational/special warfare equipment certified.
- m. The ability to participate routinely in Tactical Data links, if applicable.
- n. Watch officers and watch supervisors are familiar with equipment, various regulations and organizations manuals, shipboard doctrines, standing and battle orders.
- o. The ability of the shipboard training teams to conduct adequate self-training, using installed, onboard training systems, in all applicable mission areas.

## SECTION 7

## INTERMEDIATE/ADVANCED TRAINING PHASE GUIDELINES

2701. **General.** The intermediate and advanced phases of unit training consist of multi-ship and battle group training under the numbered fleet commander and prior to the start of deployment. Emphasis is placed on integrated watch section training in a fully coordinated multi-threat environment. Included is the series of final predeployment evolutions required of all units. By the end of the advanced phase, each unit should have satisfactorily completed all intermediate/ advanced exercises listed in Appendix A and should be fully ready to deploy in a battle group/amphibious ready group environment, i.e., M-1 in all mission areas.

2702. **Guidelines.** The overall objective of the intermediate/ advanced phases is to become proficient in advanced watch team training/tactics and coordinated underway battle group operations, and to complete other inport and underway training evolutions in preparation for deployment. This includes the following major training/training-related events: inport battle group workup training, fleet exercises (i.e. COMPTUEX, MEUEX, JTFEX, etc.), integrated SMCM/EOD MCM/AMCM exercises, and inspections and grooms not completed earlier in the training phases (e.g., SSRNM, CSRR).

a. If a unit has identified training deficiencies in any mission area during basic training, appropriate corrective action must be taken during the intermediate/advanced phases to remediate the deficiency.

b. An amphibious MEUEX will normally be completed before deployment and as a prelude to the amphibious pre-deployment exercise. It is designed to provide multi-ship/marine amphibious training and certification opportunities to increase tactical proficiency and sharpen amphibious skills. The PHIBRON commander may tailor training to the requirements of the ships involved, embarked marines, and any expected deployment contingencies.

c. Squadron Exercises (RONEX) and Gulf of Mexico Exercises (GOMEX) are scheduled quarterly for those mine countermeasures units that have completed the basic training phase. The RONEX is conducted during the intermediate training phase and is designed to bring ships who have mastered individual unit MCM disciplines together as a task Force under the MCM Squadron in a tactical exercise scenario, and provide additional training as required. The GOMEX is conducted as a part of the advanced phase and brings air, surface, and underwater MCM units together to focus on integrated MCM operations in preparation for participation with the battle group in major fleet exercises involving complex mine countermeasures operations. MCM Squadron Commanders will tailor the intermediate and advanced phases to the forces involved and will consider the types of scenarios to be encountered in upcoming major fleet exercises and deployments.

d. Ships should practice the warfare commander or warfare coordinator role for which their ship is most suited to:

- (1) Provide watch-teams the opportunity to practice advanced level skills.
- (2) Discern gaps in watch-team/watch-stander knowledge or skills.
- (3) Alert the Commanding Officer to situations that may not have been considered or anticipated.

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## CHAPTER 3

## SHIPBOARD TRAINING AND SCHOOLS PROGRAMS

## SECTION 1

## SHIPBOARD TRAINING TEAMS

Ref: (a) OPNAVINST 3500.39, Operational Risk Management  
(b) OPNAVINST 5100.19C NAVOSH Program Manual for Forces Afloat

3101. **General.** This section provides guidance for the ship's training team organization.

3102. **Background.** A key initiative of the Tactical Training Strategy is to develop a self-sustaining training capability in each ship through the use of onboard training teams. Fleet training resources are used to build this capability by “training the trainers” who in turn train the shipboard watchstanders.

a. Training teams exist for five general purposes:

(1) Training. This includes both individual and team training, and encompasses pre-briefing and debriefing actions as well as providing feedback during the actual training scenario.

(2) Exercise control (including initiation of the exercise and to provide responses to watchstander / team actions).

(3) Exercise role-play. For example, the training teams perform the role of higher authority in combat systems training.

(4) Exercise planning, recording, and assessment.

(5) Safety monitoring.

b. An effective training program is based on a logical continuum of training, starting with basic watchstander actions and progressing to more complex evolutions. A foundation which develops watchstander Level of Knowledge (LOK) based on evolution training, seminars, use of embedded training devices, etc., provides the synergy for watch teams to conduct efficient exercises and drills, including integrated training. The goal is for the ship’s training teams to attain self-sufficiency and to be able to maintain proficiency by conducting challenging training using realistic, safe, and progressive scenarios designed to meet specific training objectives. To be effective, training must be scheduled and conducted beyond the basic training phase and continue throughout the entire operating cycle.

c. Effective integrated scenario-based training exercises the ship as a complete combat system. It affects multi-mission areas, not merely parallel/simultaneous exercises, and demonstrates the intra- and interdependency of systems. Designing and executing scenarios that demonstrate “cause and effect” relationships between systems are the essence of integrated training. For example, imposing a simulated casualty to a non-vital system such as sea water cooling to an air conditioning plant could, if not detected and corrected in a timely manner by the watchstander/teams, lead to a loss of chill water which, in turn, would cause the loss of a principal combat system such as SPY radar. Demonstrating the critical relationship of systems through the creation of a “cause and effect” scenario requires the involvement and coordination of several training teams, tests the proficiency of watchstanders in several mission areas, and is the essence of effective integrated training.

d. While integrated training scenarios exercise the ship as an integrated weapons system, an important aspect of shipboard training, continuing training efforts are also required in subordinate functional areas; e.g., Combat Systems, Engineering, Damage Control, Seamanship, Navigation, Aviation and Medical, to maintain proficiency in

## COMNAVSURFLANT/PACINST 3502.2E

each area. Also, as ship-wide integrated training efforts involve significant commitment of personnel and time, more frequent functional area training can be conducted independently by each training team as time and resources permit. In a well-developed program, independent functional area training by each team will not be conducted “in a vacuum.” The plan should include exercising the interfaces with other watchstanders either through simulation or role-playing. For example, during engineering casualty control exercises, the EOOW should be expected to make all required reports to the OOD, CSOOW, etc., and should be pressed for information if he or she fails to do so.

e. Exercises may be conducted in the training mode where watchstanders are relatively unfamiliar with the exercise, and training time outs may be necessary. Alternatively, exercises may be conducted in the evaluation / assessment mode where the only time outs should be for safety considerations.

3103. **Description.** Training teams should include a core group of the most knowledgeable and experienced personnel in the ship who bring enthusiasm to the training process. No particular team size is directed. The size of the crew, number of qualified personnel, complexity of the exercise, and safety requirements will influence the size of the team. In addition, some training objectives for a particular event may not require the stationing of a full training team. Ships may find it desirable to have a 2 section training team program in which a training team will be formed from one watch section to train the other and vice versa. The following training teams will be established:

- a. Integrated Training Team (ITT).
- b. Combat Systems Training Team (CSTT)
- c. Engineering Training Team (ETT)
- d. Damage Control Training Team (DCTT)
- e. Seamanship Training Team (STT)
- f. Aviation Training Team (ATT). (LHA/LHD/LPH/MCS/LPD only)
- g. Medical Training Team (MTT). (Ships with Medical Departments headed by Medical Officers only)

3104. **Objectives.** The training teams are responsible, under their team leaders, for the identification, formulation, integration and conduct of all phases of watchstander and watch team training. They have the following responsibilities:

- a. Plan, brief, conduct and debrief training using applicable instructions and publications.
- b. Raise watchstander Level of Knowledge (LOK) through a program that combines evolutions, seminars, and embedded training devices, in addition to drills and exercises.
- c. Assess the readiness and effectiveness of watch teams in the performance of watch station specific tasks.
- d. Analyze problem areas or training deficiencies and initiate corrective actions to eliminate the possibility of personnel injury and damage to equipment.

3105. **Organization.** Individual training teams should be comprised of the following members: Team Leader, Team Coordinator, Watch station Evaluators/Trainers/Safety Observers.

3106. **Responsibilities.**

a. The Commanding Officer shall ensure that each training team is designated in writing and the personnel assigned are qualified for the watch station they are evaluating.

b. The Executive officer, as Chairman of the Planning Board for Training and Team Leader of the ITT, will coordinate the planning and execution of the ship's training team effort.

c. The Team Leader is responsible for the management of the training team. To this end, the team leader shall:

- (1) Be a member of the Planning Board for Training (PB4T) and the Integrated Training Team (ITT).
- (2) Formulate a training package tailored to specific integrated or individual functional area team training objectives.
- (3) Identify training constraints, disclosures and simulations and annotate the training package accordingly.
- (4) Present the proposed training package to the Commanding Officer for approval.
- (5) Conduct a pre-brief for each training event for training team members and the watch team being trained.
- (6) Ensure the training team prior to each training event conducts a safety walk-through.
- (7) Supervise the conduct of the training event.
- (8) Conduct the training event debrief.
- (9) Establish a feedback mechanism to address deficiencies identified during exercises conducted.
- (10) Identify training shortfalls and develop lessons learned.

d. The team coordinator is responsible to the team leader for:

- (1) Organizing all team training periods, developing training event plans and making all preparations in support of event execution.
- (2) Act as overall manager of the training team for training event briefs, performance and debriefs.
- (3) Train team members in the proper conduct of their duties as drill initiators, exercise observers and safety observers, including the Operational Risk Management (ORM) process.
- (4) Compile the results of the training event and submit the event evaluation sheets along with the critique sheets to the team leader for review.
- (5) Act as coordinator for all recommendations and feedback concerning the training team.

e. Trainers/Evaluators/Safety Observers directly observe individual and team performance of the training event. Some may act as initiators. Various duties include: perform on-site observations and evaluations.

- (1) Conduct of safety walk-through and pre-event checks.
- (2) During exercises conducted in the training mode, provide training/prompting as necessary to meet the training objective.
- (3) During exercises conducted in the evaluation mode, normally provide prompting only as required to prevent disruption of the event timeline or for safety reasons.

(4) Provide immediate feedback to individual watchstanders upon completion of the training event.

(5) Provide a post-exercise debrief on observations noted, lessons learned and recommendations for corrective actions.

3107. **Safety and Risk Management.**

a. General. Safety is the primary concern during all training events. If an unsafe condition exists, the training event should be stopped until a safe condition is established.

b. Risk Management. Reference (a) requires use of Operational Risk Management (ORM) in all aspects of operations, training and planning. The training team leaders are responsible for ensuring that ORM procedures are used in planning training events.

c. Safety Inspections. Pre-event walk-throughs shall be conducted prior to each training event. Safety walk-through guidelines are provided in Reference (b).

3108. **Shipboard Training Team Course.** The Shipboard Training Team (SBTT) course is designed to primarily work with the ship's Integrated Training Team (ITT) although training modules for each training team are available. In general, the SBTT provides information on watch team training, drill guide/drill plan development, briefing/debriefing, scenario/timeline development, self-assessment, team dimensional/team building skills training and use of ATG products throughout the basic phase. Ships are encouraged to tailor the SBTT to fit their individual needs. A complete discussion of the basic phase tactical scenario book and how to use the scenario products during CART II, TSTA, CMTQ, and FEP is included in the SBTT. The course consists of over twenty modules of information, which are described in detail on the ATGLANT ([www.atgl.spear.navy.mil](http://www.atgl.spear.navy.mil)) and ATGPAC ([www.atgpac.navy.mil](http://www.atgpac.navy.mil)) Web Pages.

## SECTION 2

## TYCOM FORMAL SCHOOL REQUIREMENTS

- Ref: (a) COMNAVSURFLANT/PACINST 3502.2C (SURFTRAMAN BULLETINS)  
 (b) LTA SDIEGOINST 3500.1  
 (c) LTA SDIEGOINST 1540.1  
 (d) LTA Hampton Roads 101152Z AUG 98  
 (e) OPNAVINST 3120.32C (Standard Ship's Organization and Regulations Manual)  
 (f) COMNAVSURFLANTINST 1320.1D/COMNAVSURFPACINST 1320.1D (TAD and School Quota Administration)  
 (g) CINCLANTFLTINST 3541.1G/CINCPACFLTINST 3541.1B (Surface Ship Damage Control Training)

3201. **General.** This chapter discusses TYCOM formal school training requirements for ships, staffs, and units of the Naval Surface Forces. School graduate requirements are delineated in Appendix D.

a. Training to support NEC/NOBC requirements in unit manpower documents, class "A" schools, factory training, and approved billet specialty training (i.e. pipeline training) are not included in this manual.

(1) NEC required training is normally provided for and funded as a part of PCS orders. If personnel are received without required NEC training, a request may be made to COMNAVSURFLANT (N413C) or COMNAVSURFPAC (N4122) for funding for those schools less than 20 weeks in length.

(2) Surface Warfare Officer Billet Specialty Training (SWO BST) for officers assigned to surface ships and afloat staffs is contained in the SWO BST Requirements manual published by CNO (N86). Recommended SWO BST (officer pipeline training) changes should be submitted via the chain of command to COMNAVSURFLANT (N811) or COMNAVSURFPAC (N83).

b. Limited TADTAR resources may not permit accomplishment of all training requirements listed in Appendix D. Commanding Officers may request TADTAR augmentation to complete training requirements; however, in the event of TADTAR shortfalls, Commanding Officers must prioritize training based on individual ship needs within existing funding resources.

3202. **Formal Schools Listing**

a. Appendix D arranges courses in the following format.

(1) Course number, course title.

(2) Applicability and required graduates. These columns list the minimum graduates for each type ship/staff/unit.

(3) Notes. The notes contain specific billets, rates/ ratings, or watch stations required to attend the course.

b. **Required Team Training.** TYCOM formal school requirements for ships include team training requirements designed to provide basic team skill levels in watch standing, tactics, fire fighting and damage control, necessary to continue training during fleet operations. Specific team training guidance follows:

(1) Team training will be repeated once per IDTC or not-to-exceed every 30 months for ships not in the IDTC. Additionally, the Commanding Officer, during CART, will assess the ship's team training status to determine the need to repeat this training. In assessing the various teams' training status, factors to be considered include:

(a) Significant loss of team personnel which degrades team effectiveness.

**COMNAVSURFLANT/PACINST 3502.2E**

(b) Loss of experienced supervisory personnel concurrent with arrival of new personnel lacking experience and unit qualifications.

(c) Unit operations that have prevented adequate opportunities to exercise the team.

(2) In the case of NSFS, if a ship has not dropped below M2, attendance at a formal team trainer is not mandatory provided there have been no personnel turnovers in any critical team billet. NSFS Team Training requirements are outlined in reference (a).

3203. **Exportable Training.** Training facilities that provide required training to Surface Force units are not available in each homeport. In many cases requiring travel to and from the school, TEMADD funds may not be available to deliver enough students to the schoolhouse for training. References (b) through (d) describe procedures for arranging mobile training teams. Appropriate references should be checked as procedures are different in each fleet.

3204. **Naval Reserve Force Units.** Formal school training requirements for NRF units are not listed separately. The required number of graduates for the appropriate ship class are to be used unless otherwise indicated in the notes for a particular school.

3205. **School Quota Management.** Each unit must establish administrative procedures to centralize school quota management, avoid duplication of quota requests, and minimize "no shows". The Training Officer, as specified on Article 303.20 of reference (e), is the one individual responsible for school quota management. Quota requests will be submitted only by designated training officers or their alternates. Units will establish centralized procedures for requesting quotas, issuing orders, arranging transportation and briefing personnel scheduled to attend schools. Procedures for requesting and administering school quotas are found in reference (f).

3206. **Damage Control and Fire Fighting Training.**

a. Reference (g) contains shipboard damage control and fire fighting training requirements, which include specific PQS requirements as well as school training. Formal school requirements are listed in Appendix D. Units are to consider these requirements as the highest shipboard training priority.

b. In addition all newly reporting personnel should receive basic shipboard survivability training as detailed in NAVEDTRA 43119-G, Section 101, at a minimum, at Shipboard Indoctrination.

3207. **Feedback.** Recommendations for changes to TYCOM formal school requirements listed in Appendix Dare to be forwarded to COMNAVSURFLANT (N811) or COMNAVSURFPAC (N83), via the chain of command, using the format provided in Chapter 1, Section 4.

## SECTION 3

## SHIPBOARD TRAINING ADMINISTRATION

- Ref: (a) CINCLANTFLTINST 3541.1G/CINCPACFLTINST 3541.1B (Surface Ship Damage Control Training)  
 (b) COMNAVSURFLANTINST 3540.22/COMNAVSURFPACINST 3540.22 (Engineering Department Organization Manual for Non-Nuclear Steam Propulsion Ships of the Naval Surface Forces)  
 (c) COMNAVSURFLANTINST 5400.1E/COMNAVSURFPACINST 5400.1G (Force Regulations)  
 (d) OPNAVINST 3120.32C (Standard Ship's Organization and Regulations Manual)  
 (e) OPNAVINST 1500.22D (General Military Training)  
 (f) OPNAVINST 5100.23E (NAVOSH Program Manual)  
 (g) SECNAVINST 5510.30A (DON Personnel Security Program)  
 (h) SECNAVINST 5510.36 (DON Information Security Program Regulation)  
 (i) OPNAVINST 5530.14C (Physical Security and Loss Prevention)  
 (j) COMNAVSURFPACINST 3501.2G/COMNAVSURFLANTINST 3500.7D (Status of Resources and Training System (SORTS))

3301. **General.** The purpose of the shipboard training program is to organize individual and team training so as to achieve the optimal level of training readiness more efficiently and effectively at each stage of the training cycle. To achieve this objective, administration of the shipboard training program must include the following basic training elements:

- a. Functional training for:
- (1) Equipment/system operation.
  - (2) Equipment/system maintenance.
  - (3) Watchstander/watch station training (inport and at sea watches). Such training should include both initial qualification and proficiency training to maintain watchstander qualifications.
  - (4) Team training for subsystem operation and single and multiple mission area employment for the unit.
  - (5) Tactical training for officers and enlisted personnel.
  - (6) Damage control training for all hands per references (a) and (b).
- b. Administrative training for:
- (1) Personnel indoctrination of newly reporting individuals per references (c) and (d).
  - (2) General Military Training (GMT) per reference (e).
  - (3) Safety training per references (d) and (f) .
  - (4) Information and physical security training per references (g), (h), and (i).

3302. **Duties and Responsibilities.** Guidelines for establishing the unit training organization and responsibilities of individual billets are provided in reference (d). Additional billet duties and responsibilities are as follows:

**COMNAVSURFLANT/PACINST 3502.2E**

a. Commanding Officer:

- (1) Establish training policy.
  - (a) Set training goals and objectives.
  - (b) Set training priorities.
- (2) Review departmental progress and overall attainment of training goals.
- (3) Certify watchstander qualification for CDO, OOD (Underway), TAO and EOOW.

b. Executive Officer:

- (1) Develop and implement training system audit program.
- (2) Act as Integrated Training Team (ITT) Leader.
- (3) Act as Damage Control Team (DCTT) Leader.

c. Senior Watch Officer:

- (1) Manage officer training program.
- (2) Manage bridge and quarterdeck watch team training program.

d. Training Officer:

- (1) Train supervisors in mechanics of running departmental and divisional training.
- (2) Report status of training as per reference (j) (SORTS).
- (3) Maintain liaison with ATG TLO and advise PBFT on training assets available.

e. Department Heads:

- (1) Maintain a list of departmental training events required by higher authority (a computer training database or updated ship's TRMS file should fulfill this requirement).
- (2) Maintain record of required school graduates and assign timely reliefs for schooling.

3303. **Personnel Qualification Programs**. As prescribed in reference (d), accomplishment of Personnel Qualification Standards (PQS) for assigned duties, watch stations, 3-M, and General Damage Control is the minimum acceptable level of individual training within the Surface Forces. Satisfactory progress in PQS is a mandatory requirement for obtaining the Commanding Officer's recommendation for advancement in rate.

3304. **Training Records**. Shipboard training records should serve the following functions:

- a. Assist in the planning of meaningful and productive lectures, seminars, examinations, drills, evolutions and exercises.
- b. Provide feedback to the chain of command on the quality of training conducted.
- c. Minimize repetition of errors in drills, exercises, and evolutions.

- d. Periodically monitor individual and team performance in drills or observed evolutions.
- e. Provide information that can be meaningfully reviewed to evaluate command training methodology.

3304. **Required Schools Master List.** The training officer should develop and maintain a consolidated Required Schools Master List. This listing should include all the "school-house" course requirements necessary to meet the ship's Navy Officer Billet Code (NOBC) and Navy Enlisted Classification (NEC) requirements as well as the Type Commander's required schools list in Appendix D. Additionally, the master list should include on-board school graduates, their respective PRDs, and prospective gains. From this consolidated listing of required schools the Commanding Officer can readily identify existing and projected shortfalls and initiate timely remedial actions.

3305. **Training Record Administration and Retention.** Chapter 8 of reference (d) contains some examples of administrative forms, and individual supervisors may develop their own personal management tools, but it is recommended that the number of forms and documents be kept to an absolute minimum. The records required by this instruction will suffice in all but the most unusual circumstances. Only training records and plans used for the current training cycle need be retained. The only records required by the Type Commander are:

- a. Long Range Training Plan - at least one for the command.
- b. Required Schools List - best included as part of the LRTP.
- c. Short Range Training Schedule - at least one per command, but most departments will probably need to issue their own.
- d. Record of Drills, Completed Training and Supervised Evolution. Records must be kept on the date and nature of operational training afforded each watch team.
- e. Approved Drill Plans. Drill plans, approved by the Commanding Officer, should be annotated to the degree the training was accomplished
- f. Training Critiques. Critiques of training events will be forwarded via the chain of command to Commanding Officer. If the training is a TRMS reportable exercise, submit input to the ship's TRNGREP (Chapter 5, Section 2) in accordance with internal procedures.

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## CHAPTER 4

## UNIT COMPETITIONS

## SECTION 1

## BATTLE EFFICIENCY AND COMMAND EXCELLENCE AWARDS

- Ref: (a) CINCLANTFLTINST 3590.11F/CINCPACFLTINST 3590.4G (Battle Efficiency Competition, Trophies and Awards)  
 (b) OPNAVINST C3501.2J (Naval Warfare Mission Areas and Required Operational Capability/Projected Operational Environment (ROC/POE) Statements)  
 (c) COMNAVSURFLANT/COMNASURFPACINST 3540.12 (E-Qual)  
 (d) NTP-13 (Flags, Pennants and Customs)

4101. **Introduction.** The Battle Efficiency Award recognizes sustained superior performance in an operational environment. Eligibility for this award demands day-to-day demonstrated excellence in addition to superior achievement during certifications and qualifications conducted throughout the competitive period. Qualification for the Battle Efficiency Award is governed by the general rules in reference (a). The ISIC has the responsibility and authority to select the Battle "E" winner(s) from among the ships in a squadron or group. The ISIC may recommend waivers of the specific requirements listed in paragraph 4102, including justification for those waivers in the selection package to the Type Commander. Since the Battle Efficiency Award is a competitive award which recognizes the best ship in an organization, waiver requests should be limited to very unusual circumstances.

4102. **Minimum Qualifications for Battle Efficiency Award.** The ISIC shall use demonstrated sustained superior performance and operational proficiency as the primary considerations in selecting a ship for the Battle Efficiency Award. The ship that consistently performs well across the board will typically be competitive for the award of the Battle "E". With this in mind, ISICs should consider the entire range of a ship's operations, both in port and underway, in selecting a Battle "E" winner. The ISIC shall take into consideration the guidelines listed below.

- a. Unit must be a commissioned ship, or a MCM rotational crew assigned to a commissioned ship, for 50% or more of the award cycle. Newly commissioned ships will not be eligible to compete for the Battle Efficiency Award or Command Excellence Awards until they have completed all predeployment certifications and inspections.
- b. Unit must earn a minimum of three of the four command excellence awards.
- c. A unit's failure to demonstrate the ability and readiness to effectively perform its primary missions in an operational environment shall be disqualifying for that cycle.
- d. Failure or poor performance in a major qualification or certification will be disqualifying for both the Battle Efficiency Award and the associated Command Excellence Awards. An unsatisfactory certification or qualification that requires re-certification or re-qualification will be disqualifying for that competitive cycle only. Once a ship is re-certified or re-qualified, the ship becomes eligible for the subsequent competitive cycle. In the case of a ship which fails to meet minimum standards in a particular command excellence award during the competitive cycle, that ship may, in order to avoid ineligibility in the subsequent cycle, request reassessment of the problem area by competent authority during the subsequent cycle. ISICs will take such reassessments into consideration.
- e. Maintain currency in all qualifications and certifications.
- f. Have demonstrated a high level of safety awareness in all phases of shipboard operations. Class A mishaps caused by the ship's negligence will normally be disqualifying for the Battle "E" and associated

## COMNAVSURFLANT/PACINST 3502.2E

Command Excellence Awards. Accidents or safety incidents of a less serious nature will be evaluated on a case by case basis by the ISIC and may result in disqualification for one or more awards.

4103. **Command Excellence Awards.** All eligible ships meeting the required standards may be selected for the applicable command excellence award. ISICs should consider the quality and intensity of ships' operations and material readiness in selecting awardees. Performance in primary mission areas during intermediate/advance training and while deployed will be carefully considered as well. The ISIC may recommend waivers of the specific requirements listed in paragraph 4104 through 4107, including justification for those waivers in the selection package to the Type Commander; however, as in the case of the Battle Efficiency Award, waiver requests should only be requested in unusual circumstances. Newly commissioned ships will not be able to compete for a Command Excellence Award until they have completed all predeployment certifications and inspections related to that award. The four command excellence award descriptions follow in para 4104 to 4107.

### 4104. **Maritime Warfare (Power Projection/Sea Control) Excellence Award**

a. The objective is to recognize sustained superior performance and readiness to conduct a ship's prescribed primary military missions as defined in reference (b).

b. Failure to obtain/maintain the following minimum criteria will preclude a ship from consideration for this award:

(1) Live Weapon Firing Exercises.

(a) Any weapons firing failure not related to ordnance (missile, torpedo, etc.) or target failure will disqualify a unit for this award.

(b) Modifications to required exercise target profiles, target characteristics, numbers of rounds expended, engagement envelopes or type ordnance expended are not authorized except as approved by TYCOM. Failure to obtain prior TYCOM authorization for an exercise modification may result in award disqualification.

(c) Missile and torpedo live firings shall be conducted so as to maintain exercise currency at M-2 level or above. Circumstances may arise, however, whereby a ship's position in the IDTC suggests that the next logical live firing training event should be scheduled after the end of the competitive period. In such situation, falling below the M-2 level in exercise currency shall not be considered disqualifying if the ISIC assesses that the ship has otherwise satisfied all criteria and demonstrates sustained excellence in the mission area in question. This will preclude accelerated live firings for the sole purpose of Battle Efficiency competition and the associated costs/schedule perturbations.

(d) Ships with a TYCOM directed reduced training package will not be penalized in award competition because the full range of normally required exercises, including live fire events, has not been included.

(2) The Cruise Missile Tactical Qualification must remain current for the ship's position in the inter-deployment training cycle.

(3) NSFS qualification must remain current for the ship's position in the inter-deployment training cycle and must be completed with an average numerical grade of 95% or above.

(4) Aviation Certification and Aviation Readiness Evaluation must be current for the ship's position in the inter-deployment cycle.

(5) If the Final Evaluation Period (FEP) is conducted during the cycle, it must be satisfactorily completed, i.e., the ship is evaluated by the ISIC as ready to proceed to intermediate /advanced phase operations.

(6) For LHA, and LHD ships, the ship must demonstrate the capability to effectively support the airwing when embarked.

(7) Combat Logistics Force ships must have satisfactorily completed the last scheduled UNREP Ship Qualification Trial (SQTs).

(8) An inadvertent/accidental weapons firing, preventable ordnance handling accident, or a reportable mishap will normally disqualify ships from award consideration.

**4105. Engineering/Survivability Excellence Award**

a. The objective is to recognize sustained superior performance in shipboard evolutions relating to main propulsion and damage control. Engineering performance while deployed or during conduct of major exercises/operations shall be a significant factor in this award.

b. Failure to obtain/maintain the following minimum criteria will preclude a ship from consideration for this award:

(1) Engineering Qualification must be successfully completed in accordance with criteria outlined in reference (c).

(2) No more than one safety program (Electrical Safety, Tag Out, Hearing Conservation or Heat Stress) may be assessed as "not effective" during the awards cycle.

(3) Satisfactory performance must be demonstrated in the total ship survivability exercise or major conflagration exercise conducted during the basic phase certifications.

(4) Material self-assessment and self-sufficiency, including contributions to BFIMA/ARGIMA, will be taken into account.

**4106. Command and Control Excellence Award**

a. The objective is to recognize sustained superior performance in shipboard operations relating to matters of command, control and communications, intelligence, electronic warfare, cryptologic employment as applicable, navigation, and seamanship. The ability to communicate effectively in an operational environment is important, and should receive significant consideration by the ISIC.

b. Failure to obtain/maintain the following minimum criteria will preclude a ship from consideration for this award:

(1) CMS Inspection must be graded "Satisfactory".

(2) No loss of CMS material, loss of CMS accountability or CMS/COMSEC incident which is determined to result in a compromise or compromise cannot be ruled out. This includes classified computer systems and materials.

(3) Satisfactory completion of the Communications Readiness Certification (CRC) is required every two years based on the Inter-Deployment Training Cycle (IDTC). A ship may be declared "in periodicity" if the CRC was successfully completed the previous year. If desired, a ship may conduct another CRC or Comprehensive Communications Assessment (CCC-19-SF) during the follow on battle "E" cycle. A minimum score of 85% is required on the CCC-19-SF to maintain eligibility for the award.

(4) Any security violation evaluated by the ISIC to be serious in nature shall result in disqualification.

**COMNAVSURFLANT/PACINST 3502.2E**

(5) No grounding or collision attributable to deficiencies in the ship's performance.

(6) The successful completion of the Live Chaff firing event C2W-11-SF

(7) Satisfactory completion of the EW Assessment Exam facilitated by the Afloat Training Group (ATG) is required every two years based on the Inter-Deployment Training Cycle (IDTC). A ship may be declared "in periodicity" if the Assessment Exam was successfully completed the previous year. If desired, a ship may conduct a preparatory Exam to prepare for the Assessment. A minimum shipboard EW average on the EW Assessment of 70% is required to maintain eligibility for the Command and control Award in the Battle E cycle.

(8) An inadvertent/accidental decoy firing, an preventable ordnance handling accident, or a reportable mishap will normally disqualify a ship from award consideration.

(9) When conducting a valid C2W exercise calling for Electronic Attack, a ship must respond with Electronic Attack (EA) when ordered. A ship failing do so for any reason other than safety will normally be disqualified from award consideration.

**4107. Supply Management Excellence Award**

a. The objective to recognize excellence in management of material, financial, and personnel resources.

b. Failure to obtain/maintain the following minimum criteria will preclude a ship from consideration for this award:

(1) The SMI must be graded "Good" or above in all mission areas (General Stores, Food Service, and Retail Operations).

(2) If a surprise disbursing inspection is conducted during the cycle, the audit must be graded "Satisfactory" with no reportable loss of accountability.

(3) Eligibility for the Supply Management Excellence Award may be revoked in the event of a loss in accountability during a competitive cycle. A loss of accountability may be defined as a disproportionate loss or gain in the Ship's Store Operation, excessive over issue or under issue in the Food Service Operation, DLR survey actions and/or carcass charges in excess of 7 percent of DLR obligations during the prior and current fiscal year, or any loss of funds or inventory attributable to poor management practices or failure to follow established procedures.

c. Logistics performance during intermediate/advanced training and while deployed will be carefully considered as well. Where appropriate, operational performance in such areas as MATCONOFF, BFIMA/ARGIMA, and Progressive Repair shall be considered.

**4108. Period of Competition**

a. The Battle Efficiency and command excellence awards are based on a 12-month cycle.

b. If a ship has been unable to operate for six or more consecutive months due to a major maintenance availability or if the ship has had no opportunity to demonstrate its ability and readiness to perform effectively its primary missions in an operational environment, the ship may request exemption from the ISIC for the Battle Efficiency Award or for one or more command excellence awards for that cycle. If that ship subsequently wins the Battle "E" or a command excellence award in the cycle immediately following exemption, consecutive award stripes earned before the exempt cycle will be retained. However, after the announcement of awards is made for a cycle in which the ship did not compete, she will not display previously earned awards in the categories for which she was exempt until and unless she earns those awards during the next competitive period.

4109. **Nomination Procedure**

a. 30 to 60 days before the end of the competitive cycle, TYCOM will solicit award inputs from Squadron and Group Commanders. The solicitation message will contain the number of Battle "E" awards that ISICs are authorized to award.

b. ISIC selection letters shall be received by the TYCOM no later than 31 January. Battle Efficiency and command excellence awards letter format will be in accordance with Figure 4-1-1. Elaborate award packages are not desired.

c. Upon receipt of all selection letters and evaluation of waiver requests, the TYCOM will promulgate a message announcing the winners. The TYCOM retains ultimate awarding authority.

4110. **Display of Awards**

a. Period of Display. Battle "E" Awards are to be displayed from the time of announcement of the award until announcement of the next cycle's awards.

b. Battle Efficiency Plaques. The Battle "E" Award plaques are for permanent retention and display.

c. Display of Awards. Awards shall be displayed in accordance with Figure 4-1-2. The order of display of awards from forward to aft will be Battle "E", Maritime Warfare "E", Engineering/Survivability "E", Command and Control "E", and Supply Management "E". FFG-7 class ships will display Command Excellence awards below the Battle "E" in recognition of the limited space available.

d. Display of Awards by MCM Rotational Crews. MCM rotational crews shall display those awards the crew has earned on the MCM hull in which they are currently embarked. When the "E" crew leaves, awards are painted over.

<u>AWARD</u>	<u>METHOD OF DISPLAY</u>
<b>BATTLE "E" AWARD</b> White formula 6 and black formula 48 class:	Center of bridge bulwark, forward, port and starboard or in general vicinity of painted campaign ribbons. (For FFG 7 Immediately below the sidelights.)
<b>MARITIME WARFARE EXCELLENCE AWARD BLACK "E"</b> Black formula 48	Port and starboard side of bridge bulwark aft of the Battle "E".
<b>ENGINEERING/SURVIVABILITY EXCELLENCE AWARD RED "E"</b> Red formula 40	Port and starboard side of bridge bulwark aft of the Battle "E".
<b>COMMAND &amp; CONTROL EXCELLENCE AWARD GREEN "E"</b> Green formula 39	Port and starboard side of bridge bulwark aft of the Battle "E".
<b>SUPPLY MANAGEMENT EXCELLENCE AWARD BLUE "E"</b> Blue formula 43	Port and starboard side of bridge bulwark aft of the Battle "E".

e. Consecutive Awards. Service stripes the same color as the related award color is added for additional awards earned in consecutive years. Instead of the letter and four service stripes for winning the award five consecutive times, in the case of the Battle "E", a gold "E" shall be displayed with a silver star above the "E". In the case of the command excellence awards, an "E" and a star of the same color will be shown for the fifth

**COMNAVSURFLANT/PACINST 3502.2E**

consecutive award, replacing the service stripes. Another star shall be added for each five successive annual awards.

f. The Battle Efficiency Pennant shall be displayed in accordance with reference (d) from announcement of the award until the next competitive cycle's winner is announced.

**SAMPLE BATTLE EFFICIENCY COMPETITION REPORT**

From: ISIC (Administrative Title)  
To: Type Commander

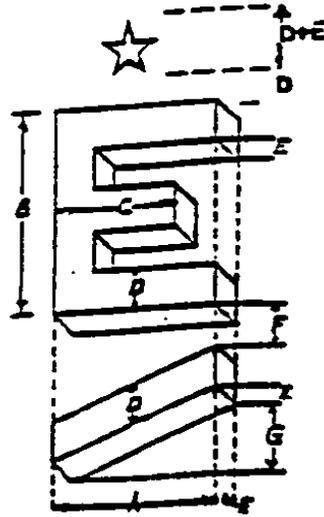
Subj: SELECTIONS FOR BATTLE EFFICIENCY AND COMMAND EXCELLENCE AWARDS

Ref: (a) COMNAVSURFLANT/COMNAVSURFPACINST 3502.2E (SURFTRAMAN)

1. In accordance with reference (a), the following ships assigned to (group/squadron) is/are selected for Battle Efficiency and command excellence awards for the competitive cycle ending \_\_\_\_\_.
2. The ships selected have demonstrated the highest level of excellence in their day-to-day performance throughout the competitive cycle and are certified to have satisfactorily met the guidelines set forth in reference (a) *(except as indicated below)*.
  - a. For the Battle Efficiency Award: USS \_\_\_\_\_.
  - b. For Maritime Warfare (Power Projection/Sea Control) Excellence: USS \_\_\_\_\_, USS \_\_\_\_\_, and USS \_\_\_\_\_. *(as required by number of awards)*
  - c. For Engineering/Survivability Excellence: USS \_\_\_\_\_, USS \_\_\_\_\_, and USS \_\_\_\_\_. *(as required by number of awards)*
  - d. For Command and Control Excellence: USS \_\_\_\_\_, USS \_\_\_\_\_, and USS \_\_\_\_\_. *(as required by number of awards)*
  - e. For Supply Management Excellence: USS \_\_\_\_\_, USS \_\_\_\_\_, and USS \_\_\_\_\_. *(as required by number of awards)*
3. *(If required)* The following waivers to award criteria are recommended:

\_\_\_\_\_  
(Signature)

**Figure 4-1-1**



BATTLE EFFICIENCY AWARDS

	A	B	C	D	E	F	G
AOE, AGF, CG, JCC, LCC, LHA, LHD, MCS, LPD, LSD	24	30	15	6	4	3	2
FFG, MCM, MHC, ARS	16	20	8	4	2.5	2	1.4
ALL OTHERS	20	25	10	5	3	2.5	1.6

COMMAND EXCELLENCE AWARDS

	A	B	C	D	E	F	G
AOE, AGF, CG, JCC, LCC, LHA, LHD, MCS, LPD, LSD	20	25	10	5	N/A	2.5	1.6
ALL OTHERS	12	15	6	3	N/A	1.5	1.2

Figure 4-1-2

## SECTION 2

## FLEET AWARDS AND TROPHIES

- Ref: (a) OPNAVINST 3590.11E (The Arleigh Burke Fleet Trophy/Marjorie Sterrett Battleship Award/USS Arizona Memorial Trophy)  
 (b) CINCLANTFLTINST 3590.11F/CINCPACFLTINST 3590.4G (Battle Efficiency Competition, Trophies and Awards)  
 (c) OPNAVINST 3590.16C (The James F. Chezek Memorial Gunnery Award)  
 (d) OPNAVINST 3590.24C (CNO Surface Ships Safety Awards Program)  
 (e) NAVSEA 59086-UD-STMQ00-CH631 (Preservation of Ships in Service)  
 (f) OPNAVINST 1650.24B (CNO Aviation-Related Awards)  
 (g) OPNAVINST 3590.18E (Annual Ship-Helicopter Safety Awards)  
 (h) OPNAVINST 4100.7A (SECNAV Energy Conservation Awards Program)  
 (i) OPNAVINST 5090.1B (Environmental and Natural Resources Program)  
 (j) COMNAVSURFLANT/PACINST 6100.1 (Force Commander Annual Wellness Unit Award)  
 (k) OPNAVINST 5305.8 (Admiral Stan Arthur Awards for Logistics Excellence)

4201. **General**

a. In addition to the Battle Efficiency and Command Excellence Awards, certain other awards related to readiness and training are presented to ships of the Naval Surface Forces. These awards are described in paragraphs 4102-4218.

4202. **Battenberg Cup Award.** (NAVSURFLANT only.) The Battenberg Cup is presented to the Battle Efficiency "E" winner, ship or submarine, which is selected as the best all around ship of the Fleet based on crew achievements. Nominations shall include substantiating rationale according to reference (a), and shall not exceed two pages. ISICs shall provide nominations to their TYCOM no later than 15 January.

4203. **Spokane Trophy.** (NAVSURFPAC only.) The Spokane Trophy is awarded by CINCPACFLT on a cycle basis to the surface combatant ship considered to be the most proficient in overall combat systems readiness and warfare operations. The nomination will be submitted by the TYCOM based on the recommendations of the ISIC. Because the award is to recognize demonstrated ability to fully conduct, on a sustained basis, simultaneous and coordinated AW, SUW and USW operations with all installed equipments, no check-off list of particular criteria is appropriate nor can a ship explicitly work for nomination for the award other than by routinely striving for the highest levels of combat systems training and material excellence. Nominations will be solicited from the ISIC each competitive period by separate correspondence and forwarded to CINCPACFLT.

4204. **The Arleigh Burke Fleet Trophy.** An annual award to the ship or aviation squadron that has achieved the greatest improvement during the preceding year. The trophy plaque awarded is kept permanently by the recipient. ISICs forward nominations for the Arleigh Burke Fleet Trophy to reach TYCOMs not later than 15 January of each year. A sample nomination letter is provided in Figure 5-2-1. The nomination letter shall not exceed two pages in length. A TYCOM nominee will be selected and further nominated to CINCLANTFLT/CINCPACFLT by 10 February for the respective Fleet Award. Fleet CINC's will select annually the ship or aircraft squadron winning the award and will present the trophy on behalf of CNO.

4205. **The Marjorie Sterrett Battleship Fund Award.** An annual award assigned to a selected type command in both the Atlantic and Pacific Fleets. The award is in the form of a monetary contribution to the unit's recreation fund. References (a) and (b) pertain. Eligibility for the award is based on the readiness and fitness of the ship as an integrated unit.

- a. The award currently rotates among TYCOMS according to the following schedule:

**COMNAVSURFLANT/PACINST 3502.2E**

(1) COMSUBLANT/COMSUBPAC	2001
(2) COMNAVSURFLANT/PAC (CRUDES)	2002
(3) COMNAVSURFLANT/PAC (AMW)	2003
(4) COMNAVAIRLANT/PAC	2004
(5) COMNAVSURFLANT/PAC (CLF)	2005

b. In those years in which COMNAVSURFLANT and COMNAVSURFPAC are designated as the type commander to nominate a ship for this award, the nominee will be the ship with the strongest record in the Battle "E" award program. Although this is the dominant factor, other evidence of overall readiness will be considered, such as outstanding participation in contingency operations (disaster relief or evacuation of U.S. citizens, etc.). Nominations from ISICs based on actions of this type are invited. TYCOMs will request nominations for this award by message and forward the name of the their nominee to CINCLANTFLT/CINCPACFLT by 10 February. Nominations shall not exceed one page in length. Fleet CINCs will select annually the ship winning the award from the specified TYCOM after the end of the calendar year and will present the award at an appropriate ceremony on behalf of CNO. CNO will announce the winner of the award, will certify to the trustee of the fund the names of the ships selected, and request available funds be equally distributed to the commanding officer of each winning ship through the cognizant Type Commander.

4206. **The USS Arizona Memorial Trophy.** The USS Arizona Memorial Trophy, established by reference (a), will be awarded to the ship having demonstrated the greatest combat readiness in strike warfare, surface fire support, and anti-surface warfare during a two-year competitive cycle commencing 1 January 1995. Nominations to CNO (OP 312) are required from the Fleet CINCs within 90 days after the conclusion of the competitive period. TYCOMs will forward nominations not later than 1 March. Nominations shall not exceed two pages in length. CNO will select and announce the winner by message. Following the award announcement, CNO will advise the Chairperson of the USS Arizona Memorial Trophy committee by letter of the recipient of the award, along with pertinent selection criteria. The winner's ISIC will conduct an appropriate ceremony and presentation. The ISIC of each subsequent winner will contact the unit on which the award resides to arrange for transshipment. All recipients of this award will, in addition, receive a miniature facsimile award for permanent retention aboard. Nominations to COMNAVSURFLANT or COMNAVSURFPAC are due by 15 January.

4207. **The James F. Chezek Memorial Gunnery Award.** This award was established by reference (c) and is given at the end of each fiscal year to one ship of the Naval Surface Forces for excellence in naval gunfire support. The recipient of this award will alternate between COMNAVSURFPAC and COMNAVSURFLANT. COMNAVSURFPAC receives the award each odd-numbered fiscal year. The award will be presented to that ship which achieves the highest numerical grade average in those exercises required for NSFS qualification (AMW exercise series. The following criteria will govern the award selection process:

a. Only those exercises that are conducted at a range of 7500 yards or greater on a certified NSFS range, are graded by outside observers, and have a final exercise grade issued by TYCOM, will count toward this award.

b. When any entire FIREX is conducted for score more than once during the fiscal year, the highest score attained will be credited toward this award except where any firing during the year results in an overall unsatisfactory score and subsequent loss of NSFS qualification. Major safety violations that occur during any gun shoot (air, surface, or NSFS) during the award period may disqualify a ship from consideration.

c. In case of a tie between two or more ships during an award year, TYCOM will select a winner after receiving all available data on surface and anti-air gunnery exercises.

d. When a ship is selected for receipt of the award, the commanding officer will be notified by TYCOM and requested to provide a list of personnel to receive equal shares of the prize money. Upon receipt, TYCOM will forward the names of individuals with current address to the Assistant for Administration, Office of the Under Secretary of the Navy, Washington, DC so that award checks may be forwarded for presentation in a suitable manner.

4208. **Admiral Alfred M. Pride Frigate ASW Readiness Award**. This award is presented annually on a fiscal year basis by the Naval Reserve Association to the NRF frigate with the best ASW readiness. The winner is awarded a plaque for permanent custody and retains a trophy until the results of the next competition are announced. Presentation is normally made at the annual Naval Reserve Association convention. Nominations not exceeding two pages in length should be made through the ISIC to reach TYCOM not later than 15 September.

4209. **Awards Sponsored by the Association of Old Crows (AOC)**. Each year the AOC presents awards to dedicated individuals and units in recognition of their outstanding contributions and achievements in Electronic Warfare. The AOC selects all individual award winners. CNO designates the unit award recipients. Commands desiring to submit nominations for AOC awards should provide all required information to TYCOM via the parent administrative commander by 15 March. Awards and submission format will be promulgated annually by TYCOM sufficiently in advance to permit preparation of nomination packages.

4210. **TYCOM Ship Safety Awards**. The TYCOM Ship Safety Award Program applies to all surface ships operating under the control of COMNAVSURFLANT and COMNAVSURFPAC and is intended to increase emphasis on shipboard safety and safety programs at the shipboard level. Awards are presented on a calendar year cycle basis to recognize excellence in surface ship safety. All eligible nominees can receive the award.

a. In addition to an outstanding safety record, ships nominated must have aggressive safety programs and must achieve the following eligibility criteria:

- (1) Meet minimum requirements of reference (d).
- (2) A formal Navy Safety Center Survey conducted during the past three years.
- (3) Safety Officer is a graduate of the Afloat Safety Officer Course.
- (4) A formal shipwide safety standdown conducted during the competitive cycle.
- (5) Shipboard occupational safety and health (NAVOSH) program in effect and operating including a viable hazardous material/ hazardous waste program as described in reference (d).
- (6) Timely submittal of mishap reports and lessons learned.
- (7) Involved safety committee.
- (8) No grades of "Not Effective" during any assessment conducted during the awards cycle in the areas of electrical safety, tag out program, heat stress, or hearing conservation.
- (9) No unsatisfactory grade for ordnance handling during Harpoon Material Certification or Tomahawk Material Certification.
- (10) Motor vehicle/motorcycle training program.
- (11) Personal protective equipment program with emphasis on EEBD, OBA and emergency egress training.

## COMNAVSURFLANT/PACINST 3502.2E

b. A list of nominated ships will be submitted by ISIC via the administrative chain of command to arrive at TYCOM no later than 31 December. Nominations will include ISIC certification that minimum award criteria have been met. Detailed award justification is not required. Nomination is limited to one page.

c. Selection for the TYCOMs' Safety Award is a prerequisite to nomination for the CNO Surface Ship Safety Award Program as described in reference (d) and Article 5210.

d. Awards will be announced by numbered ALNAVSURFLANT/PAC message. Ships selected to receive the TYCOM Ship Safety Award are authorized to display the Surface Ship Safety Award Pennant shown in Figure 5-2-2. Period of display will be from the date of the announcement message until promulgation of the succeeding year's list of recipients.

4211. **Chief of Naval Operations Surface Ship Safety Awards.** The Chief of Naval Operations Surface Ship Safety Awards Program is applicable to all surface ships operating under the control of COMNAVSURFLANT and COMNAVSURFPAC and competition will be conducted in accordance with reference (d). Awards are presented on the competitive cycle basis to recognize outstanding contributions to Fleet readiness, increased morale and efficient, economical use of resources through safety.

a. The awards are presented in the following categories:

- (1) Cruiser.
- (2) Destroyer.
- (3) Frigate.
- (4) Amphibious Warfare (large) (LHA, JCC/LCC, LHD, LPD, AGF).
- (5) Amphibious Warfare (medium/small) (LSD, LST).
- (6) Combat Logistics (large) (AOE).
- (7) Salvage Rescue (ARS)

b. Navy-wide awards are offered in the floating drydock category on a separate 12-month competitive cycle.

c. ISICs will submit a single nomination for their best eligible ship in each category to TYCOMs via the chain of command at the end of each competitive cycle. Nominations are due to TYCOMs 31 January.

d. Nomination package size is limited to 2 pages.

e. The green safety "S" shall be displayed per reference (d) and Section 9, reference (e).

4212. **Admiral Flatley Memorial Award.** The Admiral Flatley Memorial Award is presented annually by CNO to two CVs and one LHA/LHD class ship. This aviation safety award covers a one-year period and is based on a comprehensive evaluation of contributions to aviation safety. Reference (f) issues the governing policy and detailed procedures involved in selecting the recipients. Final nominations are submitted via the chain of command to NAVSAFECEN before 15 January.

4213. **Annual Ship-Helicopter Safety Awards.** Annual awards established by reference (f) and given to one LANTFLT and one PACFLT LAMPS MK III, and CLF ship in recognition of outstanding contribution to the ship-

helicopter safety program. In addition to an outstanding safety record, ships selected must have aggressive safety programs that contribute new ideas to accident prevention.

a. Award Description. The award will consist of the temporary custody of the annual Ship-Helicopter Safety Award plaque, permanent custody of a replica of the trophy, and a citation by CNO. The trophy will be presented annually by CNO or a designated representative and will remain in the custody of the winning ship for the duration of the subsequent award period.

b. Selection Criteria. The awards will be based upon a comprehensive evaluation by the Commander, Naval Safety Center, of:

- (1) Embarked aircraft mishaps versus flight hours.
- (2) Contribution to ship-helicopter safety.
- (3) The type commander's appraisal of the ship's performance relative to other ships nominated.

c. Eligibility. All CLF ships configured for vertical replenishment operations and LAMPS ships that operated with helicopters embarked during the award year will be eligible for award consideration.

d. Action

(1) Ships will ensure that Commander, Naval Safety Center is an information addressee on all accident prevention or safety related correspondence and may initiate nominations per reference (g).

(2) TYCOMs will forward by letter all nominations with a ranking/evaluation of eligible ships to COMNAVSACFEN before 15 February.

#### 4214. Junior Officer Award for Excellence in Shiphandling Competition

a. The Junior Officer Shiphandling Competition Program will be conducted annually with the selection process continuing throughout each calendar year. Each group/squadron will comprise a competitive grouping. The ISIC will forward nominations to the type commander through the chain of command. Those NRF ships in which Selected Reserve (SELRES) officers regularly serve may additionally nominate a SELRES officer for the JO Shiphandling Award using the same criteria for evaluation and selection, and the same administrative procedures as are used in the nomination of active duty officers. This nomination is in addition to the nomination made for active duty officers and is to be submitted concurrently with other nominations according to the provisions of this instruction.

b. All officers on duty afloat in the grade of lieutenant commander and below, except commanding officers and lieutenant commanders serving as executive officers, are eligible. Also, officers of the Selected Reserve serving in NRF ships, in the grade of lieutenant commander and below, are eligible for nomination for a separate award. Executive officers in the grade of lieutenant or junior may participate. Officers will be eligible for only one award while serving at a single duty station. By 15 December, the ISIC will select and nominate, by message, one active duty officer, and as applicable, one SELRES officer as the winner(s) of the shiphandling award within the group or squadron. The type commander will review each recommendation and award letters of commendation to the winners.

c. Figure 4-2-3 shall be used as a guide to assure conformity to the maximum extent possible and applicable, recognizing the capabilities/missions of the various ship classes. This form shall not be submitted as part of nomination package.

4215. **Secretary of the Navy Energy Conservation Award Program.**

The Secretary of the Navy Energy Conservation Award Program is an annual award presented by the Secretary of the Navy to Navy units and activities in seven award categories. These categories are:

- a. Ships (crew of 400 or more).
- b. Ships (crew of less than 400).
- c. Aviation squadrons.
- d. Shore activities with 500 or more full-time employees.
- e. Shore activities with less than 500 full-time employees.
- f. Industrial activities.
- g. Navy units in SNDL, Part I, other than ships and aviation squadrons.

**NOTE:** The award is given to promote excellence in energy conservation and energy management within the Department of the Navy. The award recognizes outstanding leadership in energy management, innovations in the improvement of energy efficient equipment and energy conserving approaches to training, daily operations, housekeeping and maintenance. Nominations will be solicited by CINCLANTFLT/CINCPACFLT annually to support a due date to OPNAV not later than 15 February. Further details are provided in references (h) and (i).

4216. **Secretary of the Navy Environmental Protection Award.** The Secretary of the Navy Environmental Protection Award is an annual award presented by the Secretary of the Navy to the Navy ship showing the greatest initiative toward operating in an environmentally acceptable manner. The award is given to stimulate outstanding performance in the pursuit of enhancing and protecting the environment. Nominations are required by 15 November. Selection is based on criteria in reference (i).

4217. **Force Commander Annual Wellness Unit Award.** The Force Commander Annual Wellness Unit Award is an annual award presented by the Type Commander to Navy units in recognition of excellence in establishing and promoting a command climate conducive to wellness and health promotion. Specific details are provided in reference (j).

4218. **Homer W. Carhart Damage Control/Firefighting Award.** The Homer W. Carhart Damage Control/Firefighting Award is presented annually by CNO to a Navy Department sailor or civilian who most exemplifies professional standards and concern for shipboard safety and survivability based on one or more of the following criteria:

- a. Displays meritorious or heroic performance in the Control of, or recovery from, an afloat casualty involving explosion, fire, flooding or collision.
- b. Develops or implements formal recommendations regarding equipment, doctrine, tactics, or training.
- c. Authors damage control, firefighting, safety or survivability articles for publication in navy media.
- d. Submits beneficial suggestions to improve safety of life at sea for implementation by the department of the Navy.
- e. Demonstrates noteworthy efforts to develop naval ship damage control and fire safety standards.
- f. Participates in demonstrations, tests or evaluations to expedite improvements to ship safety and survivability.

- g. Performs safety and survivability related duties with exemplary professionalism for a sustained period.

TYCOM messages will solicit nominations for this award annually, usually in September.

4219. **Superior Surface Warfare Programs Recognition**. In order to provide recognition to ships with superior officer and enlisted warfare specialty qualification programs, they are authorized to fly distinctive pennants as follows:

- a. Silver Surface Warfare Excellence Pennant . Ships with all E-5 through E-9 sailors who have been assigned on board for over 18 months and who are ESWS qualified, will be eligible to fly the Silver Surface Warfare Excellence Pennant. For determining eligibility, PO3s who advance to PO2 will start the 18-month count from the day of advancement rather than their reporting date.

- b. Gold Surface Warfare Excellence Pennant. Ships with all surface warfare officers who have been assigned on board for over 18 months and who are SWO qualified, will be eligible to fly the Gold Surface Warfare Excellence Pennant. For determining eligibility, staff corps officers with community specific SWO programs; e.g., Medical, Dental and Supply SWO programs , will be included in the calculation.

- c. Procedures.

- (1) When a ship meets the requirements to fly either of the above pennants, the CO will notify the ISIC that all requirements have been met. The ISIC will validate the data and present the appropriate pennant to the ship.

- (2) Ships will remain eligible to fly the pennant(s) as long as the eligibility criteria are met. When eligibility ceases, the ship will notify the ISIC and cease to display the pennant(s).

- (3) When ships regain eligibility, the ISIC will be notified and authorization to commence display received prior to flying the pennant(s) again. The ship will procure subsequent and replacement pennants after initial presentation.

- d. Display. The Gold and Silver Surface Warfare Pennants will be flown from the main mast below other award pennants. When the ship is eligible to display both pennants, the Gold Pennant will be displayed above the Silver.

4220. **Admiral Stan Arthur Awards for Logistics Excellence**. This award recognizes the Civilian Logistician, the Military Logistician, and the Logistics Team of the Year with annual awards that consist of personalized plaques and cash awards. Ships and staffs that feel they have a candidate who meets the criteria contained in reference (k), should submit a nomination package to the appropriate Force Supply Officer in January following the year of service on which the award is based.

4221. **Intelligence Excellence Award** (NAVSURFLANT only). The Intelligence Excellence Award is an annual award that recognizes ships demonstrating superior intelligence performance, encourages intelligence reporting, recognizes innovative methods of intelligence to the commander, and strengthens the operator-intelligence relationship at sea. The award honors the unit's entire intelligence team (to include USMC, CT, EW, lookouts, etc).

- a. Administrative Authority: COMNAVSURFLANT N2 is the administrative authority for the Intelligence Excellence Award program for COMNAVSURFLANT units noted in paragraph b. However, COMINWARCOM will be administrative and awarding authority for COMINWARCOM Collateral Duty Intelligence Officer (CDIO) units (MHC/MCM/ROT crews).

- b. Award Categories:

- (1) Ships with Afloat Intelligence Centers (LCC, AGT, LHD, LHA, and MCS)

## COMNAVSURFLANT/PACINST 3502.2E

(2) Ships with Independent Duty Intelligence Specialists (IS-3905s). Also, ships with gapped IS-3905 billets will be judged in the IS-3905 category.

(3) Ships with CDIO (i.e. no Intelligence Officer (163x)/Intelligence Specialist (IS) personnel permanently assigned – less COMINWARCOM CDIO).

c. Award Submission: The competitive time period for the awards are 01 Jan to 31 Dec of each year. All submissions must be sent via letter or record message traffic, to their Immediate Superior-in-Command (ISIC). Inputs can be classified up to SECRET GENSER; however, efforts should be made to classify the input at the lowest possible level. Each ISIC will select no more than one unit in each of the applicable competitive categories as their submission to COMNAVSURFLANT N2. There is one exception, Afloat Intelligence Center submissions will be forwarded directly to COMNAVSURFLANT N2, with information copies to ISIC. Final selection will be made by COMNAVSURFLANT.

d. Selection Criteria:

(1) Support to the Command. Timely and useful intelligence to the Commanding Officer is deemed paramount.

(2) Collection and Reporting. Value added to the operator/intelligence communities is a key evaluation tool.

(3) Initiatives. Continuous improvement of the intelligence readiness/performance is also deemed essential.

(4) Training and Readiness. All units must meet the minimum requirements for intelligence training.

e. Presentation: COMNAVSURFLANT will announce winners via fleet wide message. In addition, award plaques for each category are permanently displayed in the respective Navy and Marine Corps Intelligence Training Center (NMITC) training classroom. The winner of each award will provide two 8 inch by 10 inch color pictures of their unit to COMNAVSURFLANT N2. One picture will be displayed on the NMITC plaque and the other will be for possible media use.

**SAMPLE ARLEIGH BURKE AWARD NOMINATION**

From: (ISIC)  
To: (Type Commander)

Subj: ARLEIGH BURKE TROPHY NOMINATION

Ref: (a) COMNAVSURFLANT/COMNAVSURFPACINST 3502.2E (SURFTRAMAN)  
(b) CINCLANTFLTINST 3590.11E or CINCPACFLTINST 3590.4G

Encl: (1) Comparison Statistics of USS \_\_\_\_\_

1. Per references (a) and (b), USS \_\_\_\_\_ is the ISIC nominee for this award.
2. The following information regarding notable achievements by USS \_\_\_\_\_ during calendar year \_\_\_\_\_ forwarded (information not covered in enclosure (1), such as):
  - a. Actual improvements in readiness, such as readiness ratings and exercise completion data.
  - b. Improvement in morale and performance. Include such areas as human relations programs and inspection results, retention statistics, advancement examination results, community relations, and athletic events.
  - c. Operational achievements worthy of note, such as major exercise participation, deployment (with noteworthy events), and other examples of extraordinary performance.
  - d. Commitments met during the year, such as visits to politically sensitive areas and a statement on whether all commitments were met with explanation of extenuating circumstances.
  - e. Unusual factors which may contribute to the nominations, such as evacuation/extraction of civilians or military in contingency situations and nomination for non-BEC awards such as SECNAV Environmental Protection Award.

\_\_\_\_\_  
(Signature)

**Figure 4-2-1**

SAMPLE ENCLOSURE (1)

Comparison Statistics of USS \_\_\_\_\_

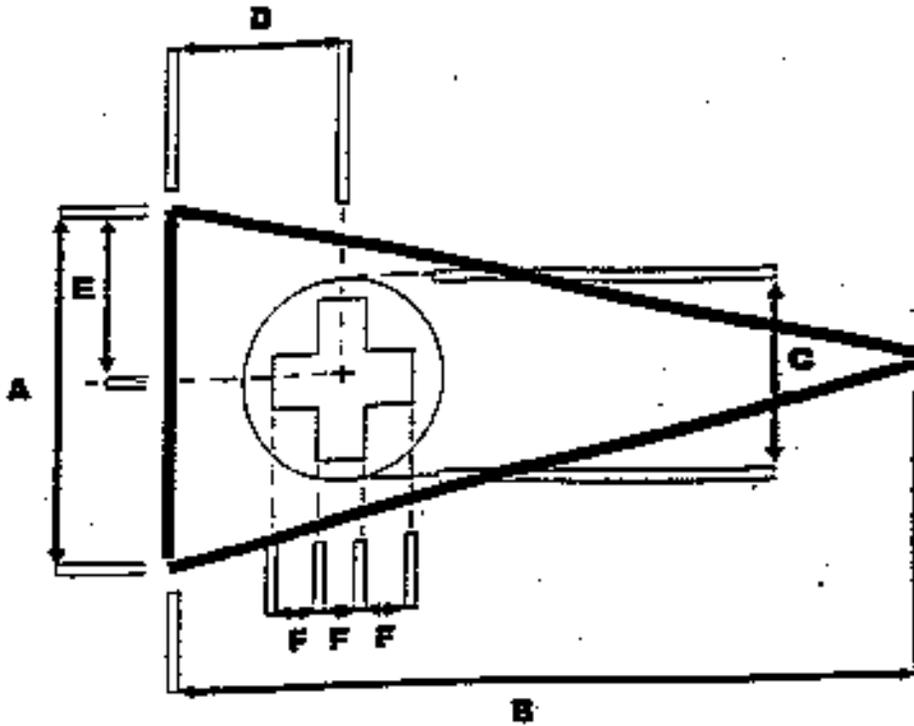
FACTOR	COMPETITIVE PERIOD ____ TO ____	COMPETITIVE PERIOD ____ TO ____
Battle Efficiency "E"	_____ of _____	_____ of _____
Number of command excellence awards	_____ of _____	_____ of _____
Retention/reenlistment (statistics)	_____	_____

Provide the following information as available for each competitive period (including dates):

Engineering Reliability	Material Inspection results and ISIC evaluation based on day-to-day performance. Include INSURV and engineering qualification results as applicable.
Supply Readiness	Supply Management Assessment results.

**Figure 4-2-1(Cont).**

TYCOM SHIP SAFETY AWARD



Green "S" Pennant (Forest green pennant with a forest green cross on a white canvas circle)

Figure 5-2-2

SHIPHANDLING COMPETITION EVALUATION FORM

-----  
Last Name, First Name, M.I., Grade, SSN/Designator

Ship: \_\_\_\_\_ Billet: \_\_\_\_\_

COMMAND PRESENCE	JUDG- MENT	USE OF STANDARD COMMANDS	USE OF ENGINES/ RUDDERS	USE OF MOORING LINES	RULES OF ROAD	TIMING/ SMARTNESS
------------------	---------------	--------------------------------	-------------------------------	----------------------------	---------------------	----------------------

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.

EVALUATION (NOTE 1)

1. Moor to pier.
2. Underway from pier.
3. Moor to and underway from buoy.
4. Anchoring/Underway from anchor.
5. Replenishment at sea (approach).
6. Replenishment at sea (alongside).
7. Man overboard.
8. Piloting into and out of port.
9. Control use of tugs (NOTE 2).

**NOTE 1:** Outstanding - 5, Excellent - 4, Good - 3, Fair - 2, Poor - 1

**NOTE 2:** Needs to be evaluated on those ships that use tugs as a matter of routine.

Figure 4-2-3

## CHAPTER 5

## REPORTS

## SECTION 1

## TRAINING READINESS REPORTING GUIDELINES

Ref: (a) NWP 1-03.3 (Rev. A) (Status of Resources and Training System (SORTS))  
(b) COMNAVSURFPACINST 3501.2G/COMNAVSURFLANTINST 3500.7D (SORTS Readiness Reporting)

5101. **General.** SORTS readiness reporting is as directed in references (a) and (b). Paragraphs 5103-5109 below discuss the methodology by which mission area readiness ratings are determined.

5102. **Definitions**

a. TRMS - TYCOM Readiness Management System (TRMS). COMNAVSURFLANT and COMNAVSURFPAC transitioned to a new software program for readiness reporting in 1995 known as TRMS. TRMS incorporates several improvements over the previous reporting system. TRMS also facilitates data base record keeping aboard ship and attendant training readiness reporting. Operator manuals provide detailed information for system implementation and operation. Some new capabilities of TRMS are:

- (1) An expanded 12-digit exercise code field.
- (2) Speed search of exercise codes.
- (3) Automatic dual reporting of related line items.
- (4) Direct readout of the effect of "caps" on mission area readiness.
- (5) A "reconcile differences" option in the ship software base, which allows for periodic updates from TYCOM.
- (6) Production of a formatted TRNGREP message.

b. TRNGREP - Training Report. A message report of completion of training exercises and other reportable readiness evolutions and inspections. This message updates the readiness database within the Readiness Module of TRMS.

5103. **Training M-Ratings** Basic, intermediate, and advanced phase evolutions are to be completed once during each work-up and deployment cycle. Accordingly, the "clock" in the TRMS computer program has been set at 24 months for these evolutions. An uncompleted evolution is reflected as M4. A satisfactorily completed evolution reported by TRNGREP is reflected as M1, with the effective date being the date the evolution was completed. If for any reason, an evolution is conducted again during the work-up or deployment cycle, the ship should report the new completion date by TRNGREP.

5104. **Initial Work-up.** A ship completing overhaul or a major maintenance availability of six months or longer, or a newly commissioned ship will normally have all of the training syllabus to complete, i.e. all required exercises will be reflected as M4 in TRMS. Ships are encouraged to report training that is accomplished during overhaul by TRNGREP. However, individual mission area M-ratings will be reported as M5 and CRTNG will be reported as C5 in SORTS until completion of overhaul. As exercises and other evolutions are successfully completed and reported by TRNGREP, their M-rating will go to M1 and will

## COMNAVSURFLANT/PACINST 3502.2E

remain at M1 until the "clock" expires or until specifically changed. The result of incrementally completing the syllabus is a steady rise in M-ratings until M1 in each mission area is achieved.

### 5105. **Repetitive Training**

a. Repetitive exercises provide continued training in skills attained during the basic, intermediate, or advanced phases. Repetitive exercises are reported by TRNGREP. Once reported, the repetitive "clock" begins, and the M-rating will degrade to M2, M3, and M4 at specified intervals.

b. **Dual Reporting**. Exercises required in more than one phase of the basic, intermediate, and advanced (BIA) syllabus, and additionally as repetitive training exercises, are identified in TRMS by separate line item for each iteration. An exercise appearing more than once in the BIA syllabus (e.g., in basic and intermediate phases) is explicitly intended to be accomplished and reported as a separate and distinct evolution. The repetitive iteration of this exercise may be reported as accomplished each and every time it is satisfactorily completed in the BIA syllabus. The TRMS program will automatically implement this feature. The effect of this "dual reporting" is to set the repetitive clock at M1 so as not to depress readiness ratings artificially during the BIA workup.

### 5106. **Resets**

a. As a result of personnel turnover and consequent degradation in operational experience, a Commanding Officer may determine that the team skills acquired in a previously completed training exercise are no longer extant. In such cases, the unit may, by TRNGREP entry, delete the prior completion of that evolution. The effect will be to set the M-rating for that exercise to M4. The more exercises reset to M4 the lower the overall mission area rating will fall.

b. The ISIC is specifically charged with directing the unit to make such a deletion and to repeat an exercise or exercises when, in the ISIC's judgment, the skills associated with the training are not being demonstrated.

c. As discussed in Section 2 of Chapter 2 to this manual, exercise resets are not required at CART II unless the ISIC determines that such action is appropriate. If done, the result is a specific reset of exercises to either M1 or M4, depending on whether or not the capabilities they represent were successfully demonstrated during CART II. If exercises are reset by the ISIC, the ship will submit (within ten working days) a TRNGREP reflecting resets.

5107. **Equivalencies**. Many unit operations, though not explicitly and formally structured for syllabus training, provide the same or similar training opportunities as the regular syllabus exercise requirements. The use of organic training devices such as BFTT, SQQ-89, and others provide excellent opportunities to satisfy training requirements without utilizing scarce off-ship resources. A unit progressing through the training work-up of the syllabus may consider that a required evolution need not be conducted because the skills normally acquired during that training evolution have already been satisfactorily demonstrated. FXP exercise descriptions are general in nature and not tailored to specific ship classes. An equivalency may be granted when the objective of the exercise is essentially fulfilled even if some element of the exercise is not accomplished or is beyond an individual unit's capability. **Authority to grant equivalencies is vested in the ISIC and applies to all exercises except actual weapon firings** (except as noted in subparagraphs (d) and (e) of this article). The following considerations apply to requests for granting of equivalencies:

a. Certain evolutions such as team trainers and off ship training assessment should be considered in the following context:

(1) Negligible personnel/key team member turnover since last completion of the evolution.

(2) Recent unit operations have exercised a specific warfare mission area/team skill such that the trainer is not considered necessary.

(3) Operational commitments may also preclude use of a specific team trainer but use of outside training assistance (e.g., ATG observers, ISIC staff, etc.) for on board reinforcement of team skills is sufficient to satisfy the exercise objective.

b. Appendix C contains detailed guidance on pre-approved equivalencies for shore-based/on board/embedded trainers and selected training vans.

c. Upon ISIC approval, the ship will report the evolution as an unscored equivalent by TRNGREP. Although claiming equivalencies can benefit the unit by acknowledging training benefits received not in an operational environment, equivalencies should be used cautiously and, when approved and reported, should be based on a deliberate evaluation that the training exercise in question is adequately represented by the equivalency and that the objectives of the exercise were essentially met.

d. Equivalencies for simulated USW weapons firings are authorized for PACFLT ships if the following criteria are met:

(1) Operations shall be conducted on an instrumented range.

(2) The ship shall track and conduct simulated attacks on a target. All USW teams must be exercised (multiple runs required).

(3) Range control/observer will provide Probability of Kill (PK) based upon ship/target geometry at the time of simulated firing and UBFCS setting. Grades should be assigned using applicable grading criteria.

(4) Actual firing procedures should be followed (i.e. air slugs fired through SVTT, LAMPS achieving attack criteria).

(5) For scoring, the best run of the day may be used. A constructive hit must be adjudged.

e. Equivalencies for AAW-11/18/19/27-SF may be obtained for Combat System Ship Qualification Trials (CSSQT) (also known as Post Delivery Test and Trials (PDT&T), and Post ROH Test and Trial (PRT&T), Developmental Test (DT) and Operational Test (OT) firings under the following conditions:

(1) Equivalency request, with ISIC endorsement, is received by TYCOM with sufficient advance notification to allow training and technical communities adequate preparation time to script scenarios which accommodate both test and training objectives.

(2) Tactically oriented training is provided to the crew for the firing.

(3) CSSQT/DT/OT missile firings are not solely a combat systems equipment certification or engineering test and are not beyond expected system performance.

(4) Applicable target and profile described for the exercise for which equivalency is requested are flown during the firing presentation.

(5) No safety violations occur in conducting any portion of the missile firing.

(6) Observer requirements of paragraph A-106 are met.

5108. **Additional Guidelines**

a. All exercises conducted under the cognizance of the ATG will be reported per the sample TRNGREP provided in paragraph 5204.

b. Capping

(1) The computation of the mission area readiness factor is based solely on satisfactory completion of a percentage of a unit's mission area exercise syllabus. All exercises/evolutions in the syllabus are weighted equally. Due to this structuring, overall percentages often do not give a true indication of actual combat readiness. Therefore certain critical standards have been selected so that a degraded readiness will be indicated unless proficiency in these selected events is demonstrated. Failure to conduct one of these events will override the normal C/M-rating computation process. These overrides act as a "cap" on the SORTS reported training resource element regardless of the numerical rating indicated in a unit's TRMS database. The TRMS program will automatically impose these CAPS if required criteria are not satisfied. Appendix B contains TYCOM guidance on training resource rating "caps" to be applied when units have deficiencies in certain mission area requirements.

(2) Reference (a) states that, "the failure of a major inspection...will result in an initial status category of 4 for appropriate mission area, and an initial category of 4 in the training and/or equipment resource area as appropriate." The ISIC should ensure that the readiness reflected for a particular primary mission area is consistent with the ship's performance in related inspections/evolutions. Appendix B contains TYCOM guidance as to training resource rating "caps" to be applied when units have indicated deficiencies in certain critical evolutions.

c. Entering Overhaul. Coincident with the submission of a CROVL C5 SORTS report at the beginning of a regular overhaul and with the concurrence of the ISIC, the Type Commander will perform the necessary action to "zero out" all training evolution completion entries in the individual unit TRMS database.

## SECTION 2

## TRAINING READINESS REPORTING SYSTEM

- Ref: (a) NWP 1-03.3 (Rev. A) (Status of Resources and Training System (SORTS))  
 (b) COMNAVSURFPACINST 3501.2G/ COMNAVSURFLANTINST 3500.7D (SORTS Readiness Reporting)

5201. **General.** References (a) and (b) provide the basic guidance for submission of Part I and Part II SORTS data. This section describes the Type Commander's training readiness reporting system, and provides guidance on the preparation and submission of reports of training exercise and inspection completion. Ultimately, training readiness C/M-ratings reported by SORTS are determined by Training Report (TRNGREP) messages submitted by individual units and compiled in TRMS.

5202. **TYCOM Readiness Management System (TRMS).** The Readiness Module of TRMS supports the Type Commander by providing up-to-date statistical training readiness and other data used at the headquarters daily.

a. TRMS provides an on-line automated system for processing information essential to unit training readiness management. The database in the Readiness Module is comprised of individual unit exercise requirements from Appendix A, "cap" items from Appendix B, as well as other training evolution, certification, and inspection information. The database is updated by submission of unit TRNGREPs. TRMS uses the TRNGREP data to convert exercise completions into exercise M-ratings and to calculate mission area training readiness M-ratings based on the overall mission area exercise completion status.

b. The more frequently a unit submits TRNGREP updates, the more accurate the database for readiness assessment purposes. Commanding Officers must ensure the timeliness of training readiness reporting. TRNGREPs should be submitted as significant changes occur, but at least monthly.

5203. **Mission Area M-Ratings.**

a. Description and Use

(1) Unit TRA exercises are "zeroed" (set to M-4) upon start of overhaul or major maintenance period of six months or greater. These ships will be in a C-5/M-5 training status during overhaul and a C-4/M-4 training status upon overhaul completion. TRNGREPs submitted during overhaul normally contain only non-exercise completion information (i.e. inspection completions and other TYCOM-interest information). However, inport exercises and team trainers accomplished during ROH can be reported even though the overall C/M-rating will not be affected. Although ships report M-5 during overhaul, some fundamental exercises will be completed during overhaul both before and during sea trials. Ships should report completion of these exercises in the first TRNGREP following completion of overhaul.

(2) Post-overhaul ships in a C-4/M-4 status are to complete and report TYCOM-required exercises on a priority basis. Under the Tactical Training Strategy, CART Phase II and the following TSTAs are designed to bring a ship to C-3/M-3 rapidly, obviating the necessity to maintain a "core" syllabus. All ship classes have now transitioned to the TTS and will conduct exercises as required in Appendix A of this manual.

(3) Following satisfactory completion, a basic, intermediate, or advanced phase exercise will become M-1 and will normally remain M-1 until reevaluated through the CART process or expiration of the readiness "clock," whichever comes first. The CART process provides for resetting exercises assigned to the basic phase to either M-1 or M-4. Intermediate and advanced phase exercises are usually reset to M-4. See paragraphs 2202.b (4) and 5106.

(4) In contrast, repetitive exercises degrade over time as indicated in Chapter 2, Section 5. The time-phased degradation from M-1 to M-4 is indicated for each exercise in Appendix A and in the Exercise Criteria Catalog from TRMS. The following example illustrates the automatic actions of the "clock" in the TRMS Readiness Module for the repetitive iteration of an exercise if not reset by follow-on completion of the exercise:

MOB-S-10-SF (6,12,18) - M-1 upon TRNGREP entry in TRMS;  
 degrades to M-2 after 6 months;  
 degrades to M-3 after 12 months;  
 degrades to M-4 after 18 months.

A report of satisfactory completion of the exercise at any time subsequent to its initial completion will reestablish M-1 status for that exercise.

(5) In addition to the normal resets discussed above, an unsatisfactory repetition of an exercise that indicates the required proficiency has been lost, should be the basis to reset an exercise to M-4.

(6) A table of TYCOM pre-approved exercise equivalencies is contained in Appendix C to allow units to take credit for exercises using shore, pierside, or on board training devices. Additional guidance on exercise equivalencies is contained in Section 1, Article 5107 of this chapter.

b. Calculation. In the calculation of the mission area resource training readiness factor, only satisfactorily accomplished exercises are considered. In the case of exercises that are done in more than one phase (basic, intermediate, or advanced) and/or are listed as repetitive requirements, the appropriate training credit will be assigned to each required iteration when calculating the training readiness factor. The following equation is used to compute each mission area training readiness factor, where M = Mission Area Training Readiness Factor and Nr of exercises = Basic + Intermediate + Advanced + Repetitive:

$$M = \frac{4A + 3B + 2C}{4(A + B + C + D)}$$

Where A = Nr of exercises M-1,  
 B = Nr of exercises M-2,  
 C = Nr of exercises M-3,  
 and D = Nr of exercises M-4.

E X A M P L E

	BIA	R	TOTAL	
If Nr of exercises M-1 =	30	10	= 40,	
Nr of exercises M-2 =	4	= 4,		(Note: BIA exercises can only be M-1 or M-4)
Nr of exercises M-3 =	3	= 3,		
Nr of exercises M-4 =	8	+ 7 = 15,	then,	

$$M = \frac{4(40) + 3(4) + 2(3)}{4(40 + 4 + 3 + 15)} = 0.718$$

(1) The mission area training readiness rating is determined by comparing the computed mission area training readiness factor with the following OPNAV-directed M-rating criteria:

M-1 = 1.000 - 0.850  
 M-2 = 0.849 - 0.700  
 M-3 = 0.699 - 0.550  
 M-4 = 0.549 and below

Therefore, in the above example where the computed mission area training readiness factor equalled 0.718, the unit would report a mission area training readiness rating of M-2.

5204. Training Report (TRNGREP)

a. Reporting Procedures

(1) The TRNGREP is a message report of the completion of training exercises as well as other reportable readiness evolutions. Submit TRNGREPs immediately upon completion of at-sea training periods, significant exercises and inspections, and other reportable evolutions. The requirement for prompt reporting is especially important during the immediate post-overhaul workup and predeployment periods. As a minimum, submit reports monthly to reach the Type Commander by the last day of the month. TRNGREPs should be sent INFO to the ship's ISIC.

(2) TRNGREP data are considered operationally significant and will continue to be submitted by message during MINIMIZE. GENADMIN and NAVGRAM formats are not recognized by TRMS and are not to be used for TRNGREPs.

(3) If TRNGREP results in significant changes to SORTS data, a revised SORTS reports should be submitted coincident with TRNGREP submission.

(4) The following is a detailed description of the TRNGREP format:

EXAMPLE

```

FM (Submitting Command)
TO COMNAVSURFLANT NORFOLK VA//811// or,
COMNAVSURFPAC SAN DIEGO CA//833//
INFO COMNAVSURFLANT DISCUS NORFOLK VA (Note 1)
ISIC
C O N F I D E N T I A L //N03501//
TRNGREP (Note 2) AS OF 010001Z JAN 95
(Hull Number) (Ship Name/UIC) (Note 3)
  A      B      C      D      E      F
N61102000011/950120/2/NONE/A/ASW-1-SF
N64142000051/950120/2/0985/A/MOB-N-5-SF
REMARKS: (Note 4)
DECL/(Six yrs from date of origination)//

```

**Notes:**

**A.** Exercise Code. TRMS twelve-digit code listed in Exercise Criteria Catalog and unit's TRA. Code breakdown of N61102000011 is as follows:

```

N 6 110 2 00 0011
A B C D E F
A. FIRST NUMBER/DIGIT. ....N=NAVY
B. SECOND DIGIT. .... 6=SURFACE, 5=SHORE BASED
C. THIRD-FIFTH. ....PMA CODE
D. SIXTH. ....TRAINING PHASE
E. SEVENTH-EIGHTH. .... INTER FIELD INDICATOR, I.E. SF/I
F. NINTH-TWELFTH. .... EXERCISE NUMBER

```

**B.** Date Completed. Format is numeric YYMMDD.

**C.** Evaluation Method

```

0 = Observed Exercise
2 = Self-observed Exercise
4 = Equivalent
6 = SELRES
8 = Reset

```

**D.** Score/Hours/Percent. Furthest right position is tenths position when reporting a score or percent. If none, use "NONE." (Note 5)

## COMNAVSURFLANT/PACINST 3502.2E

### E. Action Code

A = Add

D = Delete

R = Reset (Note 6)

### F. Exercise Identification. Use applicable titles from the unit's TRA. (Note 7)

#### NOTES:

1. NAVSURFLANT CG/DD/DDG/FFG also include AFLOATRAGRULANT CSTG NORFOLK VA as an info addee. Also note that in the case of SURFLANT units, if COMNAVSURFLANT DISCUS info addee is not listed, the TRNGREP will not update the TRMS database.
2. Insert three digit unit serial number for sequential tracking of reports (001-999). Next report after 999 is 001; serial numbers are not calendar dependent.
3. Same as Organization Identification Line of SORTS report (NAME/UIC).
4. The Remarks section is used to collect unique information of interest to TYCOM, GRUCOM, and/or ISIC if not otherwise reported by exercise code. For amplifying information, see paragraph 5205.
5. To report a score of 95.3%, write 0953; for 100%, write 1000;
6. "A" (addition) is used to report all completions. "D" (deletion) is used to remove the entire entry when an erroneous completion date has been submitted. To change an evaluation method and/or score of a previously reported item, use an addition code, and update as required. "R" (reset) is used to reset exercises from M-1 to M-4 as a result of CART II.
7. Cite the appropriate FXP exercise designation (e.g., "MOB-D-9-SF" vice "MAIN SPACE FIRE"). For an evolution without an FXP designation, use course number if applicable or appropriate narrative wording otherwise (e.g., "J-210-0513", or "DIESEL ENGINE INSPECTION"). Use of this field is mandatory.

b. Message Format Requirements. TRNGREPs are automatically generated by TRMS. Errors are usually caused by ignoring error messages in TRMS or by manually editing the message after it is generated by the software. Errors will in most cases cause the message to be placed in the suspense file rather than the unit file. Manual processing is then required to correct the error for the message to be entered into the unit file. Some errors may even require retransmission of the entire message to enable a database update. Common errors are:

(1) Not completing all elements in the exercise line, (i.e. exercise code, date completed, evaluation method, score, action code, and exercise identification).

(2) Reporting exercise completion dates which are later than the date-time-group of the TRNGREP.

(3) UNCLAS vice CONFIDENTIAL classification.

(4) Incorrect UIC or omitting the leading letter N.

(5) Using GENADMIN format.

5205. Type Commander TRNGREP Information. The TRNGREP is also used to collect unique information of interest to the Type Commander, the group commander, and/or ISIC on both a regular and a one time only basis. Information of this type will be reported in the Remarks section of the TRNGREP message if no TYCOM exercise code is assigned. Only the Type Commander will assign exercise codes. All applicable units will report the following TYCOM-formatted special interest items.

#### a. Sonar Contact Time

(1) The objective of the Sonar Contact Time requirement is to set fleet goals that will maintain Sonar Operator and USW Team proficiency in active and passive detection, classification, and tracking of USW contacts. Sonar Contact Time is defined as any sustained USW pursuit/prosecution on a known or suspected submarine contact, whether live or synthetic.

(2) USW capable ships will report contact time monthly in the TRNGREP. M-rating for contact time is based on the total number of hours accumulated over the past three months. Contact time reporting is treated similarly to exercise reporting. Each requirement will have an M-1 through M-4 status according to the following guidelines:

CONTACT TIME	M-1	M-2	M-3	M-4
ACTIVE SENSORS	3 MOS >25 HRS	3 MOS 24.9-20.6 HRS	3 MOS 20.5-16.2 HRS	3 MOS <16.2 HRS
PASSIVE SENSORS	3 MOS >25 HRS	3 MOS 24.9-20.6 HRS	3 MOS 20.5-16.2 HRS	3 MOS <16.2 HRS
LIVE TARGET	3 MOS >5 HRS	3 MOS 4.9-4.1 HRS	3 MOS 4.0-3.2 HRS	3 MOS <3.2 HRS

(3) Active and Passive Contact Time may be reported for all live underwater contacts, simulated contacts, and targets of opportunity. Advances in shore-based training, shipboard target generation, and environmental modeling allow for quality operator and team training inport. However, maximum use of maneuverable targets in a live environment is encouraged. Active and Passive Contact Time may be obtained from the following sources:

- (a) Live underwater contacts
- (b) Shipboard simulators/target generators (OBT/IOBT, T-5/T-6, SQS-56 TGT)
- (c) Shore-based trainers (OBT-TCD, 14A12, 14A35, 20B5, IVDS/ICW, etc)
- (d) Acoustic analysis trainers (APTS, SOLO, PADS, etc)
- (e) Surface ships

(4) Live Target Contact Time is reported for live underwater contacts only. Ships with no Live Target Contact Time in 3 months will be capped at M-2 in USW. The following are consider live targets:

- (a) Submarines
- (b) MK 30 ASW Targets
- (c) MK 39 Expendable Mobile ASW Training Targets (EMATT)

**COMNAVSURFLANT/PACINST 3502.2E**

(d) Unmanned Underwater Vehicles (UUV)

(e) Torpedoes

(f) Mines/Mine-like Objects.

(5) Exercise Line Format. The exercise codes in the training data for sonar contact time will be used to report contact hours accumulated during the month.

(a) Example: On March 31, 1998, a ship accumulated 8.5 hours of Active Contact Time for the month of March. The TRNGREP line item reads as follows (per STM paragraph 5204):

TRMS DATA CODE/980331/0/0085/A/CONTACT TIME ACTIVE

b. Acoustic Analysis Contact Time

(1) All USW capable ships will report Acoustic Analysis Contact Time. The minimum requirement to maintain acoustic analysis proficiency is twenty (20) hours per month for each analyst assigned. Acoustic Analysis Contact Time is calculated by dividing the total divisional man-hours accumulated from analyst training during the month, by the total number of analyst assigned.

CONTACT TIME	M-1	M-2	M-3	M-4
ACOUSTIC ANALYSIS	3 MOS	3 MOS	3 MOS	3 MOS
	>60	59.9-49.4	49.3-38.8	<38.8
	HRS	HRS	HRS	HRS

(2) Acoustic Analysis Training will be conducted in accordance with COMNAVSURFLANT/PACINST 3361.1A Surface Ship Acoustic Analysis Proficiency Program (SSAAPP). Training will be recorded in the Divisional Training Records or training database. Training time may be acquired as follows:

(a) Using shipboard ONI/NAVSTAD/DARTS tapes, SSAAC Site training devices, and computer based simulators (APTS, PADS, etc)

(b) Intelligence/publication reviews

(c) Training conducted on underwater acoustics, oceanography, data collection, and other principals and fundamentals of USW operations as outlined in the SSAAPP instruction.

(3) Exercise Line Format. The exercise codes in the training data for acoustic analysis training time will be used to report training hours accumulated during the month.

(a) Example: On March 31, 1998, a ship accumulated 355 man-hours of Acoustic Analyst training for the month of March. If 16 Acoustic Analyst are assigned, the ship would report 22.2 hours of Acoustic Analysis Contact Time. The TRNGREP line item reads as follows (per STM paragraph 5204):

TRMS DATA CODE/980331/0/0222/A/CONTACT TIME ANALYSIS

c. Degaussing.

(1) Ships will report during all training phases satisfactory or unsatisfactory degaussing ranging. Report satisfactory completion of an entire reciprocal run package (i.e. N-S run followed by S-N run equals one package completion). For satisfactory runs, report "SATT" in the SCORE column; for an unsatisfactory run in either direction, report "USAT" in the SCORE column.

(2) Sample: TRMS DATA CODE/910513/0/SATT/A/Degaussing Check Range Steel Hull

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## SECTION 3

## TRAINING REPORTS SUMMARY

5301. **ISIC Reports**

<u>Report/Reference</u>	<u>Description</u>
a. Award Nominations. SURFTRAMAN Ch4, Sec1	ISIC will submit nominations following each competitive cycle for Battle "E" and Command Excellence awards using format of Figure 4-1.
b. FEP Completion	ISIC will report completion of FEP within one week of completion.

5302. **Unit Reports**

<u>Report/Reference</u>	<u>Description</u>
a. Training Report (TRNGREP). SURFTRAMAN Ch5, Sec2	<ol style="list-style-type: none"> <li>1. Message report of completion of training exercises as well as other reportable readiness evolutions, and TYCOM interest data.</li> <li>2. Exercises completed in overhaul should be reported in the first TRNGREP submitted upon completion of overhaul.</li> <li>3. As a minimum, TRNGREPs will be submitted monthly to reach TYCOM NLT last day of the month.</li> </ol>

5303. **Other Training Reports**

<u>Report/Reference</u>	<u>Description</u>
a. SURFTRAMAN Feedback Report. SURFTRAMAN Ch1, Sec4	Any unit in chain of command, as well as any activity included on distribution either as service provider or supporting activity, may initiate query about any aspect of the Surface Force Training Program or make recommendation for its improvement.
b. Navy Training Feedback System (NTFS) Form	This form is a tool for Navy activities and personnel to identify, report and validate training related deficiencies to CNET, TYCOM and other echelon II commands. OPNAVINST 1500.71 governs the use of NTFS.

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## APPENDIX A

## EXERCISE REQUIREMENTS

Ref: (a) COMNAVSURFLANT/COMNAVSURFPACINST 3502.3 (SURFTRAMAN Bulletins)

A-101. **General.** This appendix delineates, in matrix format, required training exercises, inport training drills, and other evolutions that apply to ships and units of the Surface Forces. The matrices are arranged by mission area and training phase.

a. Except for engineering exercises, exercise descriptions are in the Fleet Exercise Publication (FXP) series. New exercises not yet in FXPs, and modifications to exercise procedures and scoring, if different from standard criteria, are in SURFTRAMAN Bulletins, reference (a). Engineering exercises are contained in a ship's EOCC. Training requirements need to be reviewed frequently. The matrices are organized by ship class, but individual differences among ships' configurations within a class may require different training requirements due to the addition, modification or removal of equipment or machinery. Ships should audit the requirements contained herein with that contained in their TRMS catalogs whenever a new catalog is received and with their own specific equipment configuration. Changes to training requirements listed in TRMS may be requested by SURFTRAMAN Feedback request as discussed in paragraph 1402. The exercise requirements for the new LPD 17 class will be filled in when determined.

b. The FXP series publications are no longer distributed in paper copy. They are distributed to all ships via the Navy Tactical Information Compendium (NTIC) Series B1CD-ROM product of the Naval War College, approximately three times per year. Some are also available on the Navy Warfare Development Command SIPRNET site at <http://ndcsecure.ndc.navy.smil.mil/>.

A-102. **Exercises Periodicities and Repetitions**

a. Basic, intermediate, and advanced exercises automatically degrade from M1 to M4 after 24 months unless reset by ISIC during CART II.

b. Repetitive exercises (only) are assigned a periodicity in months which determines the M-rating for those exercises.

(1) Normally, an exercise need be completed satisfactorily only once before reporting.

(2) A subsequent unsatisfactory repetition of an exercise results in that exercise being reset to M-4 by the ship in its next TRNGREP.

c. The basic phase exercise matrix lists those exercises a ship can be expected to demonstrate in basic phase training in terms of FXP exercises. The training plan developed by the ISIC and ship CO following CART II will complete some portion of these exercises, either through specific events or scenario training that satisfies the objectives of one or more exercises. Ships will report which exercises were accomplished or satisfied during their training with ATG following FEP by TRNGREP. However, in order to make progress toward M-1 training readiness, ships need to continue working toward completing all required basic phase exercises before commencing intermediate and advanced training under the numbered fleet commander.

A-103. **Engineering Training Exercises.** The engineering training exercises contained in the MOB-E Exercise Matrix are based on the ship's master EOCC loadout. They are divided into four drill families based on commonality of procedures and the ship systems involved. Each family is subdivided into core and elective groupings. Core drills are those considered to be the most significant with respect to plant operation or potential for personnel injury or equipment damage.

## COMNAVSURFLANT/PACINST 3502.2E

- a. In order to maintain training readiness, all core drills must be completed satisfactorily every 6 months.
- b. All elective drills must be satisfactorily completed over an 18 month period, which means that approximately one-third must be completed every six months.
- c. A drill is satisfactory when there would have been no additional damage or injury, plant control is maintained, and the expected outcome is achieved. ETT errors that preclude the above conditions from being demonstrated may make a drill unsatisfactory. Follow-on actions can be decoupled from the drill and evaluated separately as evolutions. Evolutions are routine tasks, or tasks resulting from a casualty, that are performed by a watchstander, watchteam, or Casualty Response Team (CRT).
- d. When the core drills and the required amount of elective drills in a drill family have been completed, the entire drill family will be reported as complete by TRNGREP. The code 9999 will be used in the score field of the elective drills not actually conducted. Exercises shall be completed satisfactorily by each Condition IV watch section in order to be complete. The ETT will adjust the complexity of drill sets as the watch section's proficiency increases. Engineering proficiency requires more than conducting large numbers of drills. Good drill preparation and feedback, as well as seminars and evolutions training are required to develop proficiency. Drills which use only one shaft or engine room, do not need to be accomplished by both engine rooms in order to be reported as complete; however, the ETT leader will ensure that each space has had exposure to all drills over the course of several training quadrants.

A-104. **Medical Training Exercises.** Medical training exercises support a secondary FSO (Medical) mission for all ships. Since this is a secondary mission, medical exercises are not used to determine a ship's training readiness status in SORTS; however, the medical exercises of this matrix are required to be conducted in the periodicities indicated, and reported by TRNGREP.

A-105. **Self-Observation and Grading of Exercises.** Successful completion of required exercises is the culmination of individual and team training effort. The determination of successful completion of a required training exercise shall be made by the commanding officer. Exercises are not to be credited as completed unless a grade of at least 62.5% was adjudged. Grading will be conducted using the appropriate SURFTRAMAN BULLETINS, FXP exercise evaluation criteria, or judgment of the appropriate training team where specific criteria are not provided; e.g., engineering casualty control exercises.

A-106. **AAW Exercise Observers.** Qualified observers are required for AAW-24-SF (Detection-to-Engagement Sequence (Nonfiring)) and all missile firing exercises. To be considered qualified, an observer must be surface warfare qualified, be serving in or recently have served in an AAW-related billet, and be from a command other than the firing ship. Observers can be either commissioned, warrant, or chief petty officers. The command conducting the exercise is responsible for ensuring observers meet these qualification requirements. Should there be any doubt as to observer qualifications, it will be resolved by the ISIC prior to conducting a missile firing exercise.

### A-107. **Safety Practices During Exercises**

- a. Strict adherence to safety standards is of paramount importance and is a command responsibility. Prevention of accidents and elimination of unsafe practices must be pursued aggressively at all levels. Many safety violations can be corrected on the spot; others require modification of procedures.
- b. Whether self-observed or observed by another command, repeated minor violations of safety precautions is adequate reason to consider exercise performance unsatisfactory.

LEGEND: X - Required exercise  
S - Specialty training  
(X, Y, Z) - After repetitive exercises, denotes M-rating degradation schedule over time, indicating exercise degrades to M2 after X months, M3 after Y months and M4 after Z months.

AMW EXERCISES-SHIPS

EXERCISES	A G F	A O E	A O E	A R S	C G 4	D D 9	D D 5	F G 7	J C C	L C C	L H A	L H D	L P D	L P D	L S D	L S D	L S T	M C M	M C S	M H C	
	1	6	5	7	3	1							4	1	3	4				5	
BASIC PHASE																					
AMW-1-SF NSFS REHEARSAL (NON-FIRE) <sup>1</sup>					X	X	X														
AMW-2-SF NSFS QUAL (FIREX I) <sup>2</sup>					X	X	X														
AMW-4-SF EMBARK PLAN										X	X	X	X		X	X	X				
AMW-5-SF ASSAULT BOAT HOIST/LOWER													X		X	X					
AMW-6-SF EMB/DBK L/C WELL DECK											X	X	X		X	X					
AMW-7-SF EMBARK/ DEBARK LCAC WELL DECK											S	S	S		S	S					
AMW-12-SF BASIC CARGO HANDLING											S	S	S			S	S				
AMW-16-SF WELL DECK CARGO HNDLG											S	S	S			S	S				
AMW-27-SF ASSAULT CRAFT HANDLING IN WELL DECK OPS											S	S	S		S	S					
AMW-28-SF CONTROL SHIP-SHORE MOVE (DAY)											S		S		S	S					
AMW-30-SF CONTROL SHIP-SHORE MOVE (NIGHT)											S		S		S	S					
AMW-34-SF EMBARK/ DEBARK AAV FROM WELL DECK <sup>3</sup>											S	S	S		S	S					
AMW-35-SF EMBARK/ DEBARK AAV FM LST																	S				
AMW-36-SF U/W LAUNCH AAV <sup>4</sup>											S	S	S			S	S				
AMW-37-SF CONTROL AAV SHIP-SHORE MOVEMENT <sup>5</sup>											S	S	S			S	S				

<sup>1</sup> MUST BE ACCOMPLISHED WITHIN 90 DAYS PRECEDING FIREX I  
<sup>2</sup> MUST BE ACCOMPLISHED AS EARLY AS SCHEDULE PERMITS. LANT FLT SHIPS ACCOMPLISH DURING INTERMEDIATE PHASE  
<sup>3</sup> REQUIRED FOR LHA/LHD ONLY IF EMBARKATION OF AAV IS PLANNED  
<sup>4</sup> REQUIRED FOR LHA/LHD ONLY IF EMBARKATION OF AAV IS PLANNED  
<sup>5</sup> REQUIRED FOR LHA/LHD ONLY IF EMBARKATION OF AAV IS PLANNED

COMNAVSURFLANT/PACINST 3502.2E

AMW EXERCISES - SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7 3	D D G 6 5 1	D D G 5 7	F G C	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
AMW-38-SF AAV SHIP-SHORE MOVE											S	S	S			S	S			
AMW-39-SF LCU STERNGATE MARRIAGE TO WELL DECK											S	S	S		S	S				
AMW-45-SF LST BEACHING AND EXTRACTION																	S			
AMW-46-SF RCV/HANDLE CASUALTIES WELL/ TANK DECK											S	S	S		S	S	S			
AMW-47-SF ASSAULT IN CBR ENVIRONMENT											S	S	S		S	S				
AMW-48-SF AMPHIB FINAL EVALUATION PERIOD											S	S	S		S	S				
AMW-61-SF CNTRL LCAC SHIP-SHORE MOVEMENT											S	S	S		S	S				
AMW-69-SF AMPHIB ENVIRON SUPPORT										X	S	S	S							
AMW-6-I HELO LAUNCH/RECOVERY (EMCON)										X	X	X	X		X	X	X			
AMW-7-I INSTRUMENT APPROACH A/C RECOVERY											X	X	X		X	X				
AMW-8-I HELO TROOP EMBARK/DEBARK											S	S	S		S	S	S			
AMW-9-I HELO LOAD/ UNLOAD											S	S	S		S	S	S			
AMW-12-I COMBAT FLIGHT OPS											S	S	S		S	S				
AMW-13-I COMBAT FLIGHT OPS (EMCON)											S	S	S		S	S				
AMW-14-I CONTROL HELO CIC/HDC											S	S	S							
AMW-15-I CONTROL HELO (EMCON)											S	S	S							
AMW-16-I RECEIVE/HANDLE CASUALTIES FROM HELO											S	S	S		S	S	S			
AMW-21-I AVIATION ORDNANCE STRIKE UP											S	S	S							
AMW-22-I HELO NVD OPS <sup>6</sup>											S	S	S		S	S				

<sup>6</sup> NVG CERTIFIED SHIPS ONLY

AMW EXERCISES-SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7 3	D D G 6 5 1	D D G 5 7	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
<b>INTERMEDIATE PHASE</b>																				
AMW-1-SF NSFS REHEARSAL (NON-FIRE) <sup>7</sup>					X	X	X													
AMW-2-SF NSFS QUAL (FIREX I) <sup>8</sup>					X	X	X													
<b>ADVANCED PHASE</b>																				
AMW-7-SF EMBARK/ DEBARK LCAC WELL DECK											X	X	X		X	X				
AMW-51-SF MAJ PHIBLEX											X	X	X		X	X	X			
AMW-61-SF CONTROL LCAC SHIP-SHORE MOVEMENT											X	X	X		X	X				
AMW-70-SF LAUNCH/ RECOVERY OF CRRC													X		X	X	X			
AMW-71-SF RRC/CRRC RAID PLAN													X		X	X				
AMW-1-I VERTICAL ENVELOPMENT											X	X	X							
AMW-19-I AIR INTERCEPT CONTROL											X	X								
AMW-20-I CONTROL ASSAULT A/C TACC/HDC											X	X	X							
AMW-22-I HELO NVD OPS <sup>9</sup>											X	X	X		X	X				
AMW-23-I EMERGENCY DEFENSE OF THE ATF											X	X	X							
AMW-24-I AV PHIBEX											X	X	X							
<b>REPETITIVE PHASE</b>																				
AMW-1-SF(12,18,24) NSFS REHEARSAL					X	X	X													
AMW-3-SF (12,18, 24) NSFS QUAL MAINTENANCE (FIREX II)					X	X	X													
AMW-4-SF (6,9,12) EMBARK PLANNING											X	X	X		X	X	X			

<sup>7</sup> PACFLT SHIPS CONDUCT IN BASIC PHASE  
<sup>8</sup> PACFLT SHIPS CONDUCT IN BASIC PHASE  
<sup>9</sup> NVG CERTIFIED SHIPS ONLY

COMNAVSURFLANT/PACINST 3502.2E

AMW EXERCISES - SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7 3	D D G 5 1	D D G 5 7	F C C	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1	
AMW-5-SF (6,9,12) ASSAULT BOAT HOIST AND LOWERING													X		X	X					
AMW-6-SF (6,9,12) EMBARK/DEBARK LANDING CRAFT -WELL DECK											X	X	X		X	X					
AMW-7-SF (6,9,12) EMBARK/DEBARK LCAC WELL DECK											X	X	X		X	X					
AMW-13-SF (6,9,12) BASIC WELL DECK CARGO HANDLING											X	X	X		X	X					
AMW-27-SF (6,9,12) ASSAULT CRAFT HANDLING IN WELL DECK OPS											X	X	X		X	X					
AMW-34-SF (6,9,12) EMBARK/DEBARK AAV FROM WELL DECK <sup>10</sup>											X	X	X		X	X					
AMW-35-SF (6,9,12) EMBARK/DEBARK AAV FROM LST																	X				
AMW-36-SF (6,9,12) U/W LAUNCH AAV <sup>11</sup>											X	X	X		X	X	X				
AMW-37-SF (6,9,12) CONTROL AAV SHIP-SHORE MOVEMENT <sup>12</sup>											X	X	X		X	X	X				
AMW-46-SF (6,9,12) RECEIVE/HANDLE CASUALTIES WELL/ TANK DECK											X	X	X		X	X	X				
AMW-61-SF (6,9,12) CONTROL LCAC SHIP-SHORE MOVEMENT											X	X	X		X	X					
AMW-69-SF (12,12, 12) AMPHIB ENVIRONMENTAL SUPP										X	X	X	X								
AMW-6-I (3,6,9) HELO LAUNCH/ RECOVERY (EMCON)										X	X	X	X		X	X	X				
AMW-7-I (3,6,9) INSTRUMENT APPROACH A/C RECOVERY											X	X	X		X	X					
AMW-12-I (6,9,12) COMBAT FLIGHT OPS											X	X	X		X	X					

<sup>10</sup> REQUIRED FOR LHA/LHD ONLY IF EMBARKATION OF AAV IS PLANNED

<sup>11</sup> REQUIRED FOR LHA/LHD ONLY IF EMBARKATION OF AAV IS PLANNED

<sup>12</sup> REQUIRED FOR LHA/LHD ONLY IF EMBARKATION OF AAV IS PLANNED

AMW EXERCISES-SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7	D D 6 3	D D 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 7	L S D 6	L S D 1	L S T	M C M	M C S	M H C 5 1
AMW-14-I (6,9,12) CONTROL HELO CIC/HDC											X	X	X							
AMW-16-I (6,9,12) RECEIVE/HANDLE CASUALTIES FROM HELO											X	X	X		X	X	X			
AMW-19-I (3,6,9) AIC											X	X								
AMW-22-I (6,9,12) HELO NVD OPS <sup>13</sup>											X	X	X		X	X				

<sup>13</sup> NVG CERTIFIED SHIPS ONLY

AW EXERCISES-SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A O R S 5 0	C G 4 7	D D 9 6 3	D D 5 7	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
<b>BASIC PHASE</b>																				
AAW-2-SF LINK 11 OPS					X	X	X	X		X	X	X								X
AAW-3-SF RADAR IFF TRACKING	X	X	X		X	X	X	X		X	X	X	X		X	X				X
AAW-4-SF AA TGT DESIGNATION AND ACQUISITION (NON-FIRING)		X	X		X	X	X	X		X	X	X								
AAW-6-SF S/S AIR TARGET DETECTION, TRACK, DESIG & ACQ		X	X		X	X	X	X			X	X								
AAW-7-SF TACTICAL AAW		X	X		X	X	X	X			X	X								
AAW-10-SF ASMD (N/F) <sup>1</sup>		X	X		X	X	X	X			X	X								
AAW-11-SF SUBSONIC ASMD STREAM RAID(FIRING) <sup>2</sup>		X	X		X	X	X	X			X	X				X				
AAW-12-SF AA GUNNERY <sup>3</sup>					X	X	X	X												
AAW-15-SF INFO PROCEDURES					X	X	X	X		X	X	X								
AAW-17-SF LINK 11 INTRUSION-JAMMING					X	X	X	X		X	X	X								
AAW-20-SF CIWS READINESS EVAL <sup>4</sup>	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X			X
AAW-21-SF CIWS FIRING	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X			X
AAW-24-SF DTE SEQUENCE (NON -FIRING)		X	X		X	X	X	X			X	X								
AAW-26-SF LINK 4A AIC					X		X				X	X								
AAW-3-I AIC <sup>5</sup>					X	X	X	X			X	X								
AAW-4-I LOST PLANE HOMING	X	X	X		X	X	X	X	X	X	X	X	X							X

<sup>1</sup> SELECTED RUNS SHOULD INCLUDE AT LEAST 1 LOW FLYER (200 FT OR LESS)  
<sup>2</sup> LANTFLT SHIPS CONDUCT DURING INTERMEDIATE PHASE. LHA AND LSD-41 CLASS SHIPS EQUIPPED WITH SSDS/RAM  
<sup>3</sup> LANTFLT SHIPS CONDUCT DURING INTERMEDIATE PHASE  
<sup>4</sup> FOR BASIC PHASE SUCCESSFUL CSSQT FIRING(S) AND SYSTEM CERTIFICATION SATISFIES THIS REQUIREMENT.  
<sup>5</sup> CONDUCT ONE PER CONTROLLER. NOT APPLICABLE TO FFG-7R

COMNAVSURFLANT/PACINST 3502.2E

AW EXERCISES - SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 0	C G 4 7	D D 9 6 3	D D 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 7	L S D 1	L S D 3	L S D 4	L S T	M C M	M C S	M H C 5 1
AAW-5-I AA TGT DESIG/ACQ IN A MUL TGT ENV-CAP COORD					X	X	X	X			X	X									
AAW-6-I ECCM MECH JAMMING <sup>6</sup>		X	X		X	X	X	X	X	X	X	X	X		X	X					X
AAW-7-I ECCM-CAP COORD IN MECH JAMMING <sup>7</sup>					X	X	X	X			X	X									
AAW-8-I TAC AAW CAP/MSL COORD <sup>8</sup>					X	X	X	X			X	X									
AAW-9-I TAC AAW CAP/MSL COORD WITH COUNTERMEASURES <sup>9</sup>					X	X	X	X			X	X									
AAW-13-I CINTEX					X	X	X	X		X	X	X									
<b>INTERMEDIATE PHASE</b>																					
AAW-11-SF SUBSONIC ASMD (FIRING) <sup>10</sup>		X	X		X	X	X	X			X	X				X					
AAW-12-SF AAW GUNNERY <sup>11</sup>					X	X	X	X													
AAW-18-SF SUPER-SONIC ASMD (FIRING) HIGH ALT <sup>12</sup>		X	X			X		X				X									
AAW-19-SF UPER-SONIC HIGH ALT/EXT RANGE (FIRING) <sup>13</sup>					X		X														
AAW-20-SF CIWS READINESS EVAL (NON- FIRING)	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X				X
AAW-21-SF CIWS FIRING	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X				X
AAW-27-SF UPER-SONIC ASMD (FIRING) LOW ALT <sup>14</sup>		X	X		X	X	X	X				X									

<sup>6</sup> ACCOMPLISH IN TSTA I OR II WITH OBT OR AS SERVICES PERMIT

<sup>7</sup> NOT APPLICABLE TO FFG-7R

<sup>8</sup> NOT APPLICABLE TO FFG-7R

<sup>9</sup> NOT APPLICABLE TO FFG-7R

<sup>10</sup> PACFLT SHIPS CONDUCT IN BASIC PHASE. LHA AND LSD-41 CLASS SHIPS EQUIPPED WITH SSDS/RAM

<sup>11</sup> PACFLT SHIPS CONDUCT IN BASIC PAHSE

<sup>12</sup> EXERCISE IS FOR LANTFLT SHIPS ONLY. (CONDUCTED AS TRACKEX FOR AOE-1, AOE-6, DD-963 NAD LHD NSSMS EQUIPPED SHIPS: CONDUCTED ICW OTHER SHIPS' FIRING EXERICSE. FCS ACQUISITION CONSTITUTES SUCCESS.)

<sup>13</sup> EXERCISE IS FOR LANTFLT SHIPS ONLY.

AW EXERCISES-SHIPS

EXERCISES	A G F	A O E	A O E	A R S	C 4 7	D 9 6	D 5 3	F 7 1	J C C	L C C	L H A	L H D	L P D	L P D	L S D	L S D	L S T	M C M	M C S	M H C
<b>ADVANCED PHASE</b>																				
AAW-10-I COORD CAP/MSL EMPL					X	X	X	X				X								
AAW-11-I COORD CAP/MSL EMPL IN ECM ENVIRON					X	X	X	X				X								
AAW-14-I A/C CONTROL-ASM PLATFORM/ASM INTERCEPT					X	X	X	X			X	X								
AAW-16-SF LIVE AAWEX					X	X	X	X		X	X	X								
<b>REPETITIVE PHASE</b>																				
AAW-3-SF (3,6,9) RADAR/IFF TRACKING	X	X	X		X	X	X	X		X	X	X	X		X	X				X
AAW-7-SF (6,12,18) TACTICAL AAW		X	X		X	X	X	X			X	X								
AAW-10-SF (9,15, 18) ASMD (NONFIRING)		X	X		X	X	X	X			X	X								

<sup>14</sup> SHIPS WITH NSSMS AND RAM, CONDUCT WITH NSSMS ONLY.

COMNAVSURFLANT/PACINST 3502.2E

C2W EXERCISES - SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A O R S 5 0	C D G 4 7 3	D D G 9 5 1	D D G 7	F C C	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
<b>BASIC PHASE</b>																				
C2W-2-SF ES DETECTION, ANALYSIS AND REPORTING	X	X	X		X	X	X	X	X	X	X	X	X		X	X				X
C2W-3-SF EXT EMCON	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
C2W-4-SF EMCON SET AND MODIFICATION	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
C2W-5-SF SATELLITE VULNERABILITY	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
C2W-6-SF ES WATCH EVAL <sup>1</sup>	X	X	X		X	X	X	X	X	X	X	X	X		X	X				X
C2W-7-SF COMP EW EX PH I <sup>2</sup>	X	X	X		X	X	X	X	X	X	X	X	X		X	X				X
C2W-14-SF EW ASSESSMENT	X	X	X		X	X	X	X	X	X	X	X	X		X	X				X
C2W-15-SF MK36 DECOY LOADEX	X	X	X		X	X	X	X	X	X	X	X	X		X	X				X
C2W-30-SF DC&T EX NOTES <sup>3</sup>						X	X		X			X								
C2W-31-SF TACTICAL COLLECTION, ANALYSIS AND REPORTING <sup>4</sup>					X	X	X		X			X								
C2W-32-SF CRYPTOLOGIC SYSTEM OPTIMIZATION <sup>5</sup>					X	X	X		X		X	X								
C2W-33-SF TACTICAL AIR TARGETING <sup>6</sup>						X	X					X								
C2W-35-SF MODE B CIRCUIT PROCEDURES <sup>7</sup>					X	X	X				X	X								

- 1 CONDUCT ONCE PER WATCH SECTION
- 2 CONDUCT PHASE I/II IN TSTA I, PHASE II/III IN TSTA II
- 3 COBLU/CDF/T-RDF EQUIPPED SHIPS ONLY. SATISFACTORY COMPLETION OF COBLU ADVANCED TEAM TRAINER COLT FULFILLS THE REQUIREMENT FOR THIS EXERCISE(COBLU equipped ships only). FOR DDG 51 CLASS: APPLIES TO HULLS 72 AND LATER; FOR DD 963: APPLIES TO COBLU ONLY.
- 4 FOR DDG 51 CLASS: APPLIES TO HULLS 72 AND LATER; FOR DD 963: APPLIES TO COBLU ONLY.
- 5 CRYPTOLOGIC CAPABLE UNITS ONLY.
- 6 COBLU/CDF/T-RDF EQUIPPED SHIPS ONLY. SATISFACTORY COMPLETION OF COBLU ADVANCED TEAM TRAINER COLT FULFILLS THE REQUIREMENT FOR THIS EXERCISE (COBLU equipped ships only). FOR DDG 51 CLASS: APPLIES TO HULLS 72 AND LATER; FOR DD 963: APPLIES TO COBLU ONLY.
- 7 SCI COMMS EQUIPPED SHIPS PERMANENTLY MANNED BY CT PERSONNEL

C2W EXERCISES-SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7	D D 9 6 3	D D 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1	
C2W-37-SF RDF SKYWAVE/GROUND PRESENTATION EXER <sup>8</sup>						X	X						X								
<b>INTERMEDIATE PHASE</b>																					
C2W-8-SF COMP EW EX PH II <sup>9</sup>	X	X	X		X	X	X	X	X	X	X	X	X		X	X				X	
C2W-9-SF COMP EW EX PH III <sup>10</sup>	X	X	X		X	X	X	X	X	X	X	X	X		X	X				X	
C2W-10-SF COORD MULTI-SHIP EW <sup>11</sup>	X	X	X		X	X	X	X	X	X	X	X	X		X	X				X	
C2W-11-SF CHAFF FIRING	X	X	X		X	X	X	X	X	X	X	X	X		X	X				X	
C2W-12-SF LAMPS MK III U/W DEMO					X	X	X	X													
C2W-13-SF MISSILE/THREAT ELECTRONIC ATTACK		X	X		X	X	X	X	X	X	X	X								X	
C2W-34-SF TACTICAL AIR TARGETING (ADV) <sup>12</sup>																					
C2W-35-SF MODE B CKT PROCED <sup>13</sup>					X	X	X				X	X									
C2W-36-SF JATACS EXERCISE											X	X									
<b>ADVANCED PHASE</b>																					
C2W-34-SF TACTICAL AIR TARGETING (ADV) <sup>14</sup>																					
C2W-35-SF MODE B CKT PROCED <sup>15</sup>					X	X	X				X	X									
C2W-36-SF JATACS EXERCISE											X	X									

8 COBLU/CDF/T-RDF EQUIPPED SHIPS ONLY.  
 9 CONDUCT DURING C2X/INDEX  
 10 CONDUCT DURING C2X/INDEX  
 11 NOT APPLICABLE TO NRF FFG7.  
 12 COBLU/CDF/T-RDF EQUIPPED SHIPS ONLY.  
 13 SCI COMMS EQUIPPED SHIPS PERMANENTLY MANNED BY CT PERSONNEL.  
 14 COBLU/CDF/T-RDF EQUIPPED SHIPS ONLY.  
 15 SCI COMMS EQUIPPED SHIPS PERMANENTLY MANNED BY CT PERSONNEL.

COMNAVSURFLANT/PACINST 3502.2E

C2W EXERCISES - SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 0	C G 4 7	D D 9 6	D D 5 3	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 7	L S D 1	L S D 3	L S D 4	L S T	M C M	M C S	M H C 5 1	
C2W-32-SF (6,12,18) CRYPTOLOGIC SYSTEM OPTIMIZATION <sup>16</sup>					X	X	X		X		X	X										
C2W-35-SF (6,12,18) MODE B CKT PROCED <sup>17</sup>					X	X	X				X	X										
C2W-36-SF (6,12,18) JATACS EXERCISE											X	X										
<b>REPETITIVE PHASE</b>																						
C2W-2-SF (3,6,9) ES DET, ANAL, REPT	X	X	X		X	X	X	X	X	X	X	X	X		X	X					X	
C2W-3-SF (3,6,9) EXTENDED EMCON	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
C2W-4-SF (3,6,9) EMCON SET AND MOD	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
C2W-5-SF (3,6,9) SATELLITE VULNERABILITY	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
C2W-6-SF (3,6,9) ES WATCH EVAL	X	X	X		X	X	X	X	X	X	X	X	X		X	X					X	
C2W-15-SF (6,12,18) <sup>18</sup> DECOY LOADING EX	X	X	X		X	X	X	X	X	X	X	X	X		X	X					X	
C2W-31-SF (3,6,9) TACTICAL COLL, ANAL & REPORTING <sup>19</sup>					X	X	X		X			X										
C2W-32-SF (6,12,18) CRYPTOLOGIC SYSTEM OPTIMIZATION <sup>20</sup>					X	X	X		X		X	X										
C2W-35-SF (6,12,18) MODE B CKT PROCED <sup>21</sup>					X	X	X				X	X										
C2W-36-SF (6,12,18) JATACS EXERCISE											X	X										

<sup>16</sup> CRYPTOLOGIC CAPABLE UNITS ONLY.

<sup>17</sup> SCI COMMS EQUIPPED SHIPS PERMANENTLY MANNED BY CT PERSONNEL

<sup>18</sup> CONDUCT ONCE PER LOADER TEAM

<sup>19</sup> FOR DDG 51 CLASS: APPLIES TO HULLS 72 AND LATER; FOR DD 963: APPLIES TO COBLU ONLY.

<sup>20</sup> CRYPTOLOGIC CAPABLE UNITS ONLY.

<sup>21</sup> SCI COMMS EQUIPPED SHIPS PERMANENTLY MANNED BY CT PERSONNEL

CCC EXERCISES-SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A O R S 5 0	C G 4 7	D D 9 6 3	D D 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
<b>BASIC PHASE</b>																				
CCC-1-SF SYSCON FLT BCST TYPE N	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-2-SF COMM OPS PLANNING	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-3-SF HELO ELVA CONTROL	X	X	X		X	X	X	X	X	X			X		X	X				X
CCC-4-SF SYSCON SHIP TEM EX FOR B,C,D & G SYS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-5-SF SYSCON SECURE VOICE SYS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-6-SF RT DRILLS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-7-SF TACTICAL MANEUVERS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-8-SF TTY CKT PROCEDURES	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-9-SF FLAGHOIST SIGNAL PROCEDURES	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-10-SF FLASHING LIGHT PROCEDURES	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-11-SF SEMAPHORE	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-12-SF IMITATIVE DECEPT- ION AND JAMMING	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-13-SF EAP/ EMERG DEST CARDS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-14-SF SYSCON QMS <sup>1</sup>	X	X	X		X	X	X	X	X	X	X	X	X		X	X		X	X	X
CCC-15-SF NTDS INITIATION AND OPS					X	X	X	X		X	X	X								
CCC-16-SF AEGIS DOCTRINE MGMT					X		X													
CCC-17-SF LINK 11 FAST FREQ CHANGE					X	X	X	X		X	X	X								X
CCC-18-SF TACINTEL COMM OPS <sup>2</sup>					X	X	X			X	X	X								X
CCC-20-SF SYSCON SI TERM/Z TERM <sup>3</sup>					X	X	X				X	X								X

<sup>1</sup> SSQ-88 EQUIPPED SHIPS ONLY

<sup>2</sup> TACINTEL EQUIPPED SHIPS PERMANENTLY MANNED BY CTs. DDG-51: APPLIES TO HULLS 72 AND LATER; FOR DD 963: APPLIES TO OUTBOARD SHIPS ONLY.

<sup>3</sup> TACINTEL EQUIPPED SHIPS PERMANENTLY MANNED BY CTs. DDG-51: APPLIES TO HULLS 72 AND LATER; FOR DD 963: APPLIES TO OUTBOARD SHIPS ONLY.

COMNAVSURFLANT/PACINST 3502.2E

CCC EXERCISES - SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7 3	D D 9 6 1	D D 5 7	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
CCC-21-SF SYSCON OPINTEL BCST/SI COMM (N SYS) <sup>4</sup>					X	X	X				X	X								X
CCC-22-SF SYSCON SPRAC NET <sup>5</sup>					X	X	X				X	X								
CCC-23-SF CRITIC HANDLING <sup>6</sup>					X	X	X				X	X								
CCC-24-SF SYSCON NB/WB SATCOM	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-25-SF SYSCON SHF SATCOM <sup>7</sup>	X								X	X	X	X								
CCC-26-SF SYSCON EHF SATCOM <sup>8</sup>	X	X	X		X	X	X		X	X	X	X	X		X	X				
CCC-28-SF LINK 11 OPTTEST (LONG LOOK)					X	X	X	X		X	X	X								X
CCC-29-SF OTCIXS/TADI XS/SYST					X	X	X	X	X	X	X	X	X							X
CCC-30-SF SYSCON OTAT/OTAR	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-31-SF SYSCON NAVMACS II <sup>9</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
<b>INTERMEDIATE PHASE</b>																				
CCC-19-SF COMP COMM ASSESSMENT <sup>10</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
<b>REPETITIVE PHASE</b>																				
CCC-1-SF (3,6,9) SYSCON FLT BCST	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-2-SF (3,6,9) COMM OP PLANNING	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-3-SF (6,12,18) HELO LVA CONTROL	X	X	X		X	X	X	X	X	X			X		X	X		X	X	X
CCC-4-SF (3,6,9) SYSCON SHIP TERM	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X

<sup>4</sup> TACINTEL EQUIPPED SHIPS PERMANENTLY MANNED BY CTs. DDG-51: APPLIES TO HULLS 72 AND LATER; FOR DD 963: APPLIES TO OUTBOARD SHIPS ONLY.

<sup>5</sup> TACINTEL EQUIPPED SHIPS PERMANENTLY MANNED BY CTs. DDG-51: APPLIES TO HULLS 72 AND LATER; FOR DD 963: APPLIES TO OUTBOARD SHIPS ONLY.

<sup>6</sup> TACINTEL EQUIPPED SHIPS PERMANENTLY MANNED BY CTs. DDG-51: APPLIES TO HULLS 72 AND LATER; FOR DD 963: APPLIES TO OUTBOARD SHIPS ONLY.

<sup>7</sup> WHEN INSTALLED.

<sup>8</sup> WHEN INSTALLED.

<sup>9</sup> WHEN INSTALLED.

<sup>10</sup> TO BE EVALUATED BY ISIC

CCC EXERCISES-SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A O R S 5 0	C G 4 7	D D 9 6 3	D D 5 7	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
CCC-5-SF (3,6,9) SYSCON SECURE VOICE	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-6-SF (3,6,9) R/T DRILLS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-7-SF (3,6,9) TACTICAL MANEUVERS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-8-SF (3,6,9) TTY CKT PROCEDURES	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-9-SF (3,6,9) FLAGHOIST	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-10-SF (3,6,9) FLASHING LIGHT	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-11-SF (3,6,9) SEMAPHORE	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-12-SF (3,6,9) IMITATIVE DECEPTION	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-13-SF (3,6,9) EAP EMERGENCY DISTRUCTION	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-14-SF (3,6,9) SYSCON QMS <sup>11</sup>	X	X	X		X	X	X	X	X	X	X	X	X		X	X		X	X	X
CCC-15-SF (3,6,9) NTDS INITIATION AND OPS					X	X	X	X		X	X	X								
CCC-16-SF (6,12,18) AEGIS DOCTRINE MANAGEMENT					X		X													
CCC-17-SF (3,6,9) LINK 11 FAST FREQ CHANGES					X	X	X	X		X	X	X								X
CCC-18-SF (6,12, 18) TACINTEL COMM OPS <sup>12</sup>					X	X	X				X	X								
CCC-19-SF (12,24, 36) COMMS ASSESSMENT <sup>13</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-20-SF (9,12, 18) SYSCON SI TERM TTY/Z TERM <sup>14</sup>					X	X	X				X	X								
CCC-21-SF (6,12, 18) SYSCON OPINTEL BCST/SI COM (N SYS) <sup>15</sup>					X	X	X				X	X								
CCC-22-SF (6,12, 18) SYSCON SPRAC NET <sup>16</sup>					X	X	X				X	X								

<sup>11</sup> SSQ-88 SHIPS ONLY

<sup>12</sup> TACINTEL SHIPS PERMANENTLY MANNED WITH CTs. DDG-51: APPLIES TO HULLS 72 AND LATER; FOR DD 963: APPLIES TO OUTBOARD SHIPS ONLY.

<sup>13</sup> TO BE EVALUATED BY ISIC

<sup>14</sup> TACINTEL EQUIPPED SHIPS PERMANENTLY MANNED BY CTs. DDG-51: APPLIES TO HULLS 72 AND LATER; FOR DD 963: APPLIES TO OUTBOARD SHIPS ONLY.

<sup>15</sup> TACINTEL EQUIPPED SHIPS PERMANENTLY MANNED BY CTs. DDG-51: APPLIES TO HULLS 72 AND LATER; FOR DD 963: APPLIES TO OUTBOARD SHIPS ONLY.

COMNAVSURFLANT/PACINST 3502.2E

CCC EXERCISES - SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 0	C G 4 7	D D 9 6	D D 5 3	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
CCC-23-SF (3,6,9) CRITIC HANDLING EXERCISE <sup>17</sup>					X	X	X				X	X								
CCC-24-SF (3,6,9) SYSCON NB/WB SATCOM	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-25-SF (3,6,9) SYSCON SHF SATCOM <sup>18</sup>	X								X	X	X	X								
CCC-26-SF (3,6,9) SYSCON EHF SATCOM <sup>19</sup>	X	X	X		X	X	X		X	X	X	X	X		X	X				
CCC-28-SF (3,6,9) LINK 11 OPERTEST (L/L)					X	X	X	X		X	X	X								X
CCC-29-SF (3,6,9) OTCIXS/TADIX SYS EX					X	X	X	X	X	X	X	X	X							X
CCC-30-SF (3,6,9) OTAT/OTAR	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CCC-31-SF (3,6,9) SYSCON NAVMACS II <sup>20</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X

<sup>16</sup> TACINTEL EQUIPPED SHIPS PERMANENTLY MANNED BY CTs. DDG-51: APPLIES TO HULLS 72 AND LATER; FOR DD 963: APPLIES TO OUTBOARD SHIPS ONLY.

<sup>17</sup> TACINTEL EQUIPPED SHIPS PERMANENTLY MANNED BY CTs. DDG-51: APPLIES TO HULLS 72 AND LATER; FOR DD 963: APPLIES TO OUTBOARD SHIPS ONLY.

<sup>18</sup> WHEN INSTALLED.

<sup>19</sup> WHEN INSTALLED.

<sup>20</sup> WHEN INSTALLED.

FSO-M EXERCISES-SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7	D D 9 6 3	D D G 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
<b>BASIC PHASE</b>																				
FSO-M-1-SF BDS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-2-SF PERS CASUALTY TRANSPORT	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-3-SF COMPOUND FRACTURES	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-4-SF SUCKING CHEST WOUND	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-5-SF ABDOMINAL WOUND	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-6-SF AMPUTATION	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-7-SF FACIAL WOUND	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-8-SF ELECTRIC SHOCK	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-9-SF MASS CASUALTY	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-10-SF SMOKE INHALATION	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-11-SF BURNS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
<b>REPETITIVE PHASE</b>																				
FSO-M-1-SF (3,6,9) BDS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-2-SF (3,6,9) PERS CASUALTY TRANSPORT	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-3-SF (3,6,9) COMPOUND FRACTURES	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-4-SF (3,6,9) SUCKING CHEST WOUND	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-5-SF (3,6,9) ABDOMINAL WOUND	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-6-SF (3,6,9) AMPUTATION	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-7-SF (3,6,9) FACIAL WOUND	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-8-SF (3,6,9) ELECTRIC SHOCK	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-9-SF (3,6,9) MASS CASUALTY	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-10-SF(3,6,9) SMOKE INHALATION	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
FSO-M-11-SF(3,6,9) BURNS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X

COMNAVSURFLANT/PACINST 3502.2E

FSO-S EXERCISES - SHIPS

EXERCISES	A G F	A O E	A O E	A R S	C 4 7	D 9 6	D 5 3	F 7	J C	L C	L H	L H	L P	L P	L S	L S	L S	M C	M C	M H
<b>BASIC PHASE</b>																				
FSO-S-2-SF TOW GROUND SHIP W/O BEACH GEAR				S																
FSO-S-3-SF BEACH GEAR OPS				S																
FSO-S-4-SF EMER PUMPING OPS				S																
FSO-S-5-SF EMERG FIRE FIGHT OPS				S																
FSO-S-6-SF RCVRY SUBMERGED WT				S																
FSO-S-7-SF U/W CUT/WELD OPS				X																
FSO-S-8-SF U/W CUT/PTCH/BLOW OPS				X																
FSO-S-9-SF U/W ALONGSIDE W/TOW				S																
FSO-S-11-SF PORT SALV EQUIP DEMO				S																
FSO-S-12-SF HAWK LOST OBJECT				S																
FSO-S-13-SF MULTI-POINT MOOR				S																
FSO-S-14-SF DIVER REQUAL				S																
FSO-S-15-SF SURFACE DECOMPRESS				S																
FSO-S-16-SF RECOM CHAMB TRT/OP				S																
FSO-S-18-SF U/W PHOTO/UDATS TRNG				X																
FSO-S-19-SF U/W HYDRAUL/ PNEUMATIC				X																
FSO-S-20-SF DIVING STA EMERG PROC				S																
FSO-S-23-SF FMGS/FADS				X																
FSO-S-24-SF LIFT BAGS/SALV PONT				S																
<b>ADVANCED PHASE</b>																				
FSO-S-2-SF TOW GROUND SHIP W/O BEACH GEAR				X																

FSO-S EXERCISES-SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7 3	D D G 6 5 1	D D G 5 7	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 7	L S D 6	L S D 1	L S T	M C M	M C S	M H C 5 1
FSO-S-3-SF BEACH GEAR OPS				X																
<b>REPETITIVE PHASE</b>																				
FSO-S-2-SF (12,15, 18) TOW GROUND SHIP W/0 BEACH GEAR				X																
FSO-S-3-SF (12,15,18) BEACH GEAR OPS				X																
FSO-S-5-SF (3,6,9) EMERG FIRE FIGHT OPS				X																
FSO-S-7-SF(6,9,12) U/W CUT/WELD OPS				X																
FSO-S-8-SF(6,9,12) U/W CUT/PTCH/BLOW OPS				X																
FSO-S-9-SF (12,15,18) U/W ALONGSIDE W/TOW				X																
FSO-S-12-SF (18,21,24) HAWK LOST OBJECT				X																
FSO-S-13-SF (6,9,12) MULTI-POINT MOOR				X																
FSO-S-14-SF (6,9,12) DIVER REQUAL				X																
FSO-S-15-SF(3,6,9) SURFACE DECOMPRESS				X																
FSO-S-16-SF(3,6,9) RECOM CHAMB TRT/OP				X																
FSO-S-17-SF (18,21,24) DEMOLITION TRNG				X																
FSO-S-18-SF (9,12,15) U/W PHOTO/UDATS TRNG				X																
FSO-S-19-SF (18,21,24 U/W HYDRAUL/ PNEUMATIC				X																
FSO-S-20-SF(3,6,9) DIVING STA EMERG PROC				X																
FSO-S-24-SF (6,9,12) LIFT BAGS/SALV PONT				X																

INT EXERCISES - SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7	D D G 6 3	D D G 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
<b>BASIC PHASE</b>																				
INT-1-SF(MS) INTEL COLL & REPTG TEAM	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
INT-1-SF(RP) INTEL REPTG - LOCATORS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
INT-1-SF(OP) OPINTEL DATA COLL <sup>1</sup>	X				X	X	X		X	X	X	X	X							X
INT-2-SF(OP) OPINTEL PLOT AND BRIEF <sup>2</sup>	X				X	X	X		X	X	X	X	X							X
INT-2-SF(RP) INTEL REPTG - IIR	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
INT-3-SF(BF) AREA THREAT BRIEF <sup>3</sup>	X				X	X	X		X	X	X	X	X							
INT-5-SF(IS) INTEL LIBRARY	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
<b>ADVANCED PHASE</b>																				
INT-1-SF(MS) INTEL COLL & REPTG TEAM	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
INT-1-SF(RP) INTEL REPTG - LOCATORS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
INT-1-SF(OP) OPINTEL DATA COLL <sup>4</sup>	X				X	X	X		X	X	X	X	X							X
INT-2-SF(OP) OPINTEL PLOT AND BRIEF <sup>5</sup>	X				X	X	X		X	X	X	X	X							X
INT-2-SF(RP) INTEL REPTG - IIR	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
INT-3-SF(BF) AREA THREAT BRIEF <sup>6</sup>	X				X	X	X		X	X	X	X	X							
INT-3-SF(OP) C2W/INFO WARFARE CONN <sup>7</sup>	X				X	X	X		X	X	X	X	X							
INT-4-SF (RP) SURVINTCOLEX	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
INT-5-SF (RP) INCSEA/DANGER MIL ACTS EXERCISE	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X

1 IF IS RATING ASSIGNED  
 2 IF IS RATING ASSIGNED  
 3 IF IS RATING ASSIGNED  
 4 IF IS RATING ASSIGNED  
 5 IF IS RATING ASSIGNED  
 6 IF IS RATING ASSIGNED  
 7 IF IS RATING ASSIGNED

INT EXERCISES-SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7	D D 9 6 3	D D 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
INT-5-SF(IS) INTEL LIBRARY	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
INT-7-SF(MP) INTEL SUPP TO PLANS FOR EVAC OPS									X	X	X	X	X							X

LOG EXERCISES-SHIPS

EXERCISES	A G F	A O E	A O E	A R S	C 4 7	D 9 6	D 5 3	F 7	J C	L C	L A	L H	L D	L P	L D	L P	L S	L D	L S	L D	M C	M S	M C	M H	M C	
<b>BASIC PHASE</b>																										
LOG-1-SF SQT INPORT		1	1																							
LOG-2-SF SQT UNDERWAY		1	1																							
LOG-3-SF VERTREP		2	2																							
LOG-4-SF DAY U/W FUEL		2	2																							
LOG-5-SF NIGHT U/W FUEL		2	2																							
LOG-6-SF DAY U/W PROV		2	2																							
LOG-7-SF NIGHT U/W PROV		2	2																							
LOG-8-SF EMERG BREAKAWAY		2	2																							
<b>INTERMEDIATE PHASE</b>																										
LOG-3-SF VERTREP		X	X																							
LOG-4-SF DAY U/W FUEL		X	X																							
LOG-5-SF NIGHT U/W FUEL		X	X																							
LOG-6-SF DAY U/W PROV		X	X																							
LOG-7-SF NIGHT U/W PROV		X	X																							
LOG-8-SF EMERG BREAKAWAY		X	X																							
<b>REPETITIVE PHASE</b>																										
LOG-3-SF (3,6,9) VERTREP		X	X																							
LOG-4-SF (3,6,9) DAY U/W FUEL		X	X																							
LOG-5-SF (3,6,9) NIGHT U/W FUEL		X	X																							
LOG-6-SF (3,6,9) DAY U/W PROV		X	X																							
LOG-7-SF (3,6,9) NIGHT U/W PROV		X	X																							
LOG-8-SF (3,6,9) EMERG BREAKAWAY		X	X																							

LOG EXERCISES - SHIPS

COMNAVSURFLANT/PACINST 3502.2E

MIW EXERCISES - SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7	D D G 6 3	D D G 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
<b>BASIC PHASE</b>																				
MIW-1-SF MINESWEEPING MECHANICAL GEAR																			S	
MIW-2.5-SF (SERIES) COMBO INFLUENCE MINESWEEPING <sup>1</sup>																			S	
MIW-4.1.1-SF MINEHUNT - SEARCH																			S	S
MIW-4.1.2-SF MINEHUNT - REAQUISITION																			S	S
MIW-4.1.3-SF MINEHUNT - VDS																			S	S
MIW-4.1.4-SF MINEHUNT - SECONDARY PLOT																			S	S
MIW-4.2-SF SMALL BOAT VECTORING																			S	S
MIW-4.4-SF CONTACT MARKING																			S	S
MIW-4.7.1-SF MNV OPS - MOORED MINES																			S	S
MIW-4.7.2-SF MNV OPS - BOTTOM MINES																			S	S
MIW-4.7.3-SF MNV OPS - LOW VIS																			S	S
MIW-8-SF DANNING																			S	
MIW-8.7-SF TRANSIT SWEEP CHANNEL	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	
MIW-11.1-SF ROUTE SURVEY OPS																			S	S
MIW-12-SF Q ROUTE SURVEY																			S	S
MIW-X3-SF SONAR COND CHECK <sup>2</sup>																			S	S
MIW-X14-SF MINE AVOIDANCE <sup>3</sup>																			S	S
MIW-X15-SF EOD DIVING DRILL <sup>4</sup>																			S	S

<sup>1</sup> ALL APPLICABLE MAGNETIC AND ACOUSTIC GEAR COMBINATIONS, AS DESIGNATED BY ISIC, SHALL BE DEMONSTRATED PRIOR TO REPORTING SATISFACTORY COMPLETION.

<sup>2</sup> CONDUCT IAW BULLETIN NR MIW-3

<sup>3</sup> CONDUCT IAW BULLETIN NR MIW-1

<sup>4</sup> CONDUCT IAW BULLETIN NR MIW-2

MIW EXERCISES-SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7	D D G 6 3	D D G 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
MIW-X16-SF MIW ENVRMNT RPTG <sup>5</sup>																			S	S
<b>ADVANCED PHASE</b>																				
MIW-1.5-SF IMP DEEP MOORED SWEEP (SINGLE/DUAL SHIP)																			X	
MIW-4-SF FORMATION SWEEP MOORED/INFLUENCE																			X	
<b>REPETITIVE PHASE</b>																				
MIW-1-SF (1,2,3) MINESWEEPING MECHANICAL GEAR																			X	
MIW-1.5-SF (3,6,12) IDMS SINGLE DUAL SHIP																			X	
MIW-2.5-SF (6,9,12) COMBO INFLUENCE MINESWEEPING <sup>6</sup>																			X	
MIW-4.1.1-SF (1,2,3) MINEHUNT - SEARCH																			X	X
MIW-4.1.2-SF (1,2,3)MINEHUNT - REACQUISITION																			X	X
MIW-4.1.3-SF (1,2,3) MINEHUNT - VDS																			X	X
MIW-4.1.4-SF (1,2,3) MINEHUNT SECONDARY PLOT																			X	X
MIW-4.2-SF (3,6,12) SMALL BOAT VECTORING																			X	X
MIW-4.4-SF (2,3,6) CONTACT MARKING																			X	X
MIW-4.7.1-SF (3,6,9) MNV OPS - MOORED MINES																			X	X
MIW-4.7.2-SF (3,6,9) MNV OPS - BOTTOM MINES																			X	X
MIW-4.7.3-SF (3,6,9) MNV OPS - LOW VIS																			X	X
MIW-8-SF (3,6,9) DANNING																			X	

<sup>5</sup> CONDUCT IAW BULLETIN NR MIW-4

<sup>6</sup> ALL APPLICABLE MAGNETIC AND ACOUSTIC GEAR COMBINATIONS, AS DESIGNATED BY ISIC, SHALL BE DEMONSTRATED PRIOR TO REPORTING SATISFACTORY COMPLETION.

COMNAVSURFLANT/PACINST 3502.2E

MIW EXERCISES - SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7 3	D D G 6 5 1	D D G 5 7	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
MIW-8.7-SF (3,6,9) TRANSIT SWEPT CHANNEL	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	
MIW-11.1-SF (3,6,9) ROUTE SURVEY OPS																			X	X
MIW-12-SF (3,6,9) Q-ROUTE MANUAL DATA COLLECTION																			X	X
MIW-X3-SF (3,6,9) SONAR COND CHECK <sup>7</sup>																			X	X
MIW-X14-SF (3,6,9) MINE AVOIDANCE <sup>8</sup>																			X	X
MIW-X15-SF (3,6,9) EOD DIVING DRILL <sup>9</sup>																			X	X
MIW-X16-SF (3,6,9) MIW ENVRNMNT RPTG <sup>10</sup>																			X	X

<sup>7</sup> CONDUCT IAW BULLETIN NR MIW-3  
<sup>8</sup> CONDUCT IAW BULLETIN NR MIW-1  
<sup>9</sup> CONDUCT IAW BULLETIN NR MIW-2  
<sup>10</sup> CONDUCT IAW BULLETIN NR MIW-4

MOB-D EXERCISES-SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7	D D G 6 3	D D G 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
<b>BASIC PHASE</b>																				
MOB-D-1-SF MESSING AT BATTLE STATIONS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-2-SF RELIEF OF VITAL STATIONS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-3-SF MANNING BATTLE STATIONS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-4-SF EMERG INTERIOR COMMS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-5-SF TOPSIDE DAMAGE <sup>1</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-6-SF RIGHTING SHIP	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-7-SF PROV CASUALTY POWER	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-8-SF MAJOR CONFLAG/ TESSE <sup>2</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-9-SF MAIN PROP SPACE FIRE (INPORT) <sup>3</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-10-SF RESCUE/ASSISTANCE (IN PORT) <sup>4</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-11-SF SETTING MATERIAL COND:PHASE 1 YOKE, PHASE 2 ZEBRA <sup>5</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-12-SF U/W HULL DAMAGE PH 1 AND 2.	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-13-SF SHORING <sup>6</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-14-SF FIRE EXTINGUISHING SMOKE CLEARING <sup>7</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-15-SF CHEMICAL ATTACK	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X

1 CONDUCT MOB-D-5-SF ICW MOB-D-13-SF AND MOB-D-20-SF.  
 2 SAMPLE MAJOR CONFLAGRATION SCENARIO IN BULLETIN 1201.  
 3 EXERCISE TO BE SUCCESSFULLY COMPLETED BY EACH INPORT EMERGENCY TEAM AND REPORTED AS ONE EXERCISE COMPLETION. UNDERWAY MAIN PROPULSION SPACE FIRE TRAINING REQUIREMENTS ARE DESCRIBED IN MOB-E SECTION UNDER MCBF.  
 4 CONDUCTED BY EACH INPORT EMERGENCY TEAM AND REPORTED AS ONE COMPLETION.  
 5 EACH DCRS EVALUATED FOR YOKE AND ZEBRA. REPORT AS ONE COMPLETION  
 6 EACH DCRS EVALUATED FOR YOKE AND ZEBRA. REPORT AS ONE COMPLETION  
 7 CONDUCTED BY EACH INPORT EMERGENCY TEAM AND REPORTED AS ONE COMPLETION.

COMNAVSURFLANT/PACINST 3502.2E

MOB-D EXERCISES - SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7 3	D D G 5 1	D D G 5 7	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1	
MOB-D-17-SF AVIATION FUEL SYS CASUALTY											X	X	X							X	
MOB-D-18-SF A/C CRASH AND FIRE											X	X								X	
MOB-D-20-SF ISOLATE/PATCH DAMAGED PIPE	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
MOB-D-21-SF MAJOR FLOOD MAIN PROPULSION SPACE	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
MOB-D-22-SF HANGER DECK A/C FIRE											X	X								X	
MOB-D-23-SF LOCATE DC FITTINGS <sup>8</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
MOB-D-24-SF DARKEN SHIP	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
MOB-D-27-SF HELO CRASH F/F	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X		
MOB-D-31-SF TOXIC GAS <sup>9</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
<b>INTERMEDIATE PHASE</b>																					
MOB-D-27-SF HELO CRASH F/F	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X		
<b>REPETITIVE PHASE</b>																					
MOB-D-1-SF (6,12,18) MESSING AT BATTLE STATIONS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
MOB-D-2-SF (3,6,12) RELIEF OF VITAL STATIONS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
MOB-D-3-SF (1,2,3) MANNING BATTLE STATIONS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
MOB-D-4-SF (3,6,12) EMERG INTERIOR COMMS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
MOB-D-5-SF (3,6,12) TOPSIDE DAMAGE <sup>10</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
MOB-D-7-SF (12,24,36) PROV CASUALTY POWER	X	X	X		X	X	X	X	X	X	X	X	X		X	X				X	
MOB-D-8-SF (6,9,12) MAJOR CONFLAG/ TESSE <sup>11</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
MOB-D-9-SF (3,6,9) MAIN PROP SPACE FIRE (INPORT) <sup>12</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X

<sup>8</sup> CONDUCTED BY EACH INPORT EMERGENCY TEAM AND REPORTED AS ONE COMPLETION.

<sup>9</sup> CONDUCTED BY EACH INPORT EMERGENCY TEAM AND REPORTED AS ONE COMPLETION.

<sup>10</sup> CONDUCT MOB-D-5-SF ICW MOB-D-13-SF AND MOB-D-20-SF.

<sup>11</sup> SAMPLE MAJOR CONFLAGRATION SCENARIO IN BULLETIN 1201.

MOB-D EXERCISES-SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7 3	D D G 6 5 1	D D G 5 7	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
MOB-D-10-SF (3,6,9) RESCUE/ASSISTANCE (IN PORT) <sup>13</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-10-SF (3,6,9) RESCUE/ASSISTANCE (UNDERWAY)	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-11-SF (3,6,12) SETTING MATERIAL COND:PHASE 1 YOKE, PHASE 2 ZEBRA <sup>14</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-12-SF (3,6,12) U/W HULL DAMAGE PH 1.	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-12-SF (3,6,12) IPT HULL DAMAGE	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-13-SF (3,6,9) SHORING <sup>15</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-14-SF (1,2,3) FIRE EXTINGUISHING SMOKE CLEARING <sup>16</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-15-SF (6,12,18) CHEMICAL ATTACK	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-17-SF (6,12,18) AVIATION FUEL SYS CASUALTY											X	X	X						X	
MOB-D-18-SF (3,6,12) A/C CRASH AND FIRE											X	X							X	
MOB-D-20-SF (3,6,12) ISOLATE/PATCH DAMAGED PIPE	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-21-SF (3,6,12) MAJOR FLOOD MAIN PROPULSION SPACE (UNDERWAY) <sup>17</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-21-SF (3,6,12) MAJOR FLOOD MAIN PROPULSION SPACE (INPORT) <sup>18</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-22-SF (3,6,12) HANGER DECK A/C FIRE											X	X							X	

<sup>12</sup> EXERCISE TO BE SUCCESSFULLY COMPLETED BY EACH INPORT EMERGENCY TEAM AND REPORTED AS ONE EXERCISE COMPLETION. UNDERWAY MAIN PROPULSION SPACE FIRE TRAINING REQUIREMENTS ARE DESCRIBED IN MOB-E SECTION UNDER MCBF.

<sup>13</sup> CONDUCTED BY EACH INPORT EMERGENCY TEAM AND REPORTED AS ONE COMPLETION.

<sup>14</sup> EACH DCRS EVALUATED FOR YOKE AND ZEBRA. REPORT AS ONE COMPLETION

<sup>15</sup> EACH DCRS EVALUATED FOR YOKE AND ZEBRA. REPORT AS ONE COMPLETION

<sup>16</sup> CONDUCTED BY EACH INPORT EMERGENCY TEAM AND REPORTED AS ONE COMPLETION.

<sup>17</sup> EXERCISE TO BE SUCCESSFULLY COMPLETED ONCE BY EACH PROP DCRS AND REPORTED AS ONE COMPLETION.

<sup>18</sup> EXERCISE TO BE SUCCESSFULLY COMPLETED ONCE BY EACH INPORT EMERGENCY TEAM AND REPORTED AS ONE COMPLETION.

COMNAVSURFLANT/PACINST 3502.2E

MOB-D EXERCISES - SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7 3	D D G 6 5 1	D D G 5 7	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
MOB-D-23-SF (6,12,18) LOCATE DC FITTINGS <sup>19</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-24-SF (6,12,18) DARKEN SHIP	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-D-27-SF (1,2,3) HELO CRASH F/F	X	X	X	X	X	X	X	X	X	X			X		X	X	X		X	
MOB-D-31-SF (3,6,9) TOXIC GAS <sup>20</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X

<sup>19</sup> CONDUCTED BY EACH INPORT EMERGENCY TEAM AND REPORTED AS ONE COMPLETION.

<sup>20</sup> CONDUCTED BY EACH INPORT EMERGENCY TEAM AND REPORTED AS ONE COMPLETION.

## MOB-E EXERCISES - STEAM SHIPS

EXERCISES	AGF	AOE 1	JCC	LCC	LHA	LHD	LPD 4	LSD 36	MCS
<b>MAIN ENGINE / SHAFTING FAMILY</b>									
<b>CORE DRILLS</b>									
MHMEB (3,6,12) HOT BRG MAIN ENG	X	X	X	X	X	X	X	X	X
MLOP (3,6,12) LOSS L/O PRESSURE MAIN ENGINE	X	X	X	X	X	X	X	X	X
MLVMC (3,6,12) LOSS VACUUM MAIN CONDENSER	X	X	X	X	X	X	X	X	X
MMLOL (3,6,12) MAJ L/O LEAK MAIN ENGINE	X	X	X	X	X	X	X	X	X
<b>MAIN ENGINE / SHAFTING FAMILY</b>									
<b>ELECTIVE DRILLS</b>									
MHLSE (3,6,12) HOT LINE SHAFT BRG	X	X	X	X	X	X	X	X	X
MJT (3,6,12) JAMMED THROTTLE	X	X	X	X	X	X	X	X	X
MLATL (3,6,12) LOSS AUTO THROTTLE			X						
MNVME (3,6,12) NOISE/VIBRATION MAIN ENGINE/SHAFT	X	X	X	X	X	X	X	X	X
<b>BOILER FEEDWATER FAMILY</b>									
<b>CORE DRILLS</b>									
MFBAC (3,6,12) FIRE BLR AIR CASE	X	X	X	X	X	X	X	X	X
MHBS (3,6,12) HEAVY BLACK SMOKE	X	X	X	X	X	X	X	X	X
MHBWL (3,6,12) HIGH WATER BOILER	X	X	X	X	X	X	X	X	X
MLBWL (3,6,12) LOW WATER BOILER	X	X	X	X	X	X	X	X	X
MLCA (3,6,12) LOSS CONTROL AIR	X	X	X	X	X	X	X	X	X
MLMFC (3,6,12) LOSS MAIN FEED CONTROL	X	X	X	X	X	X	X	X	X
MLWDT (3,6,12) LOW WATER DFT	X	X	X	X	X	X	X	X	X
MMFOL (3,6,12) MAJOR F/O LEAK	X	X	X	X	X	X	X	X	X
MWS (3,6,12) WHITE SMOKE	X	X	X	X	X	X	X	X	X
<b>BOILER FEEDWATER FAMILY</b>									
<b>ELECTIVE DRILLS</b>									
MBEX (3,6,12) BOILER EXPLOSION	X	X	X	X	X	X	X	X	X
MLOBF (3,6,12) LOSS BOILER FIRES	X	X	X	X	X	X	X	X	X

## MOB-E EXERCISES - STEAM SHIPS

EXERCISES	AGF	AOE 1	JCC	LCC	LHA	LHD	LPD 4	LSD 36	MCS
MRBT (3,6,12) RUPTURED BOILER TUBE	X	X	X	X	X	X	X	X	X
MRDFP (3,6,12) RUPTURED DFT PIPE	X	X	X	X	X	X	X	X	X
<b>ELECTRICAL FAMILY CORE DRILLS</b>									
MHBTG (3,6,12) HOT BRG SSTG	X	X	X	X	X	X	X	X	X
MLLOPT (3,6,12) LOSS L/O PRESSURE SSTG	X	X	X	X	X	X	X	X	X
MLVAC (3,6,12) LOSS VACUUM AUX CONDENSER	X	X	X	X	X	X	X	X	X
<b>ELECTRICAL FAMILY ELECTIVE DRILLS</b>									
MCCFG (3,6,12) CLASS C FIRE GEN	X	X	X	X	X	X	X	X	X
MLOLT (3,6,12) L/O LEAK SSTG	X	X	X	X	X	X	X	X	X
MNVTG (3,6,12) UNUSUAL NOISE/ VIBRATION SSTG	X	X	X	X	X	X	X	X	X
<b>INTEGRATED FAMILY CORE DRILLS</b>									
MCBF (3,6,12) B FIRE MAIN SPACE	X	X	X	X	X	X	X	X	X
MCCFS (3,6,12) CLASS C FIRE SWBD	X	X	X	X	X	X	X	X	X
MCFED (3,6,12) CLASS C FIRE EDS	X	X	X	X	X	X	X	X	X
MLSC (3,6,12) LOSS STEERING CONTROL	X	X	X	X	X	X	X	X	X
<b>INTEGRATED FAMILY ELECTIVE DRILLS</b>									
MMF (3,6,12) FLOODING MAIN SPACE	X	X	X	X	X	X	X	X	X
MMSLR (3,6,12) MAJ STEAM LEAK	X	X	X	X	X	X	X	X	X

## COMNAVSURFLANT/PACINST 3502.2E

## MOB-E EXERCISES - GAS TURBINE SHIPS

EXERCISES	AOE6	CG47	DD963	DDG51	FFG7
<b>MAIN ENGINE DRILL FAMILY</b>					
<b>CORE DRILLS</b>					
MBGTM (3,6,12) B FIRE GTM MOD	X	X	X	X	X
MCASF (3,6,12) GT COOL AIR SYSTEM FAILURE	X	X	X	X	X
MGGG (3,6,12) GG STALL GTM	X	X	X	X	X
MLPTO (3,6,12) LOW L/O PRESSURE GTM	X	X	X	X	X
MMFOL (3,6,12) MAJOR F/O LEAK	X	X	X	X	X
MPSFP (3,6,12) POST SHUTDOWN FIRE GTM	X	X	X	X	X
<b>MAIN ENGINE DRILL FAMILY</b>					
<b>ELECTIVE DRILLS</b>					
MECUF (3,6,12) EXEC CNTRL UNIT FAILURE		X	X		
MEPTV (3,6,12) PT VIBS HI GTM	X	X	X	X	X
MGGOS (3,6,12) GG OVERSPD GTM	X	X	X	X	X
MHTIT (3,6,12) PT INLET TEMP HI GTM	X	X	X	X	X
MLFOP (3,6,12) LOSS F/O PRESSURE MAIN ENGINE	X	X	X	X	X
MLPACC (3,6,12) LOSS OF PACC CONSOLE	X			X	
MLPLA (3,6,12) LOSS OF PLA GTM	X	X	X	X	X
MPCSF (3,6,12) PROG CONTROL FAILURE					X
MPTOS (3,6,12) PT OVERSPEED GTM	X	X	X	X	X
<b>PROPULSION DRIVE TRAIN FAMILY</b>					
<b>CORE DRILLS</b>					
MHBRG (3,6,12) HOT BRG RED GEAR	X	X	X	X	X
MHROT (3,6,12) HI REVERSE CONVERTER COUPLING OIL TEMP	X				
MLCRP (3,6,12) LOSS PITCH CONTROL		X	X	X	X
MLHOL (3,6,12) LEAK CRP/CPD SYS		X	X	X	X
MLLOL (3,6,12) MAJ L/O LEAK RED GEAR	X	X	X	X	X
MLLOPR (3,6,12) LOSS L/O PRESSURE REDUCTION GEAR	X	X	X	X	X

## MOB-E EXERCISES - GAS TURBINE SHIPS

EXERCISES	AOE6	CG47	DD963	DDG51	FFG7
MRVF (3,6,12) REVERSE CONVERTER VANE FAILURE	X				
<b>PROPULSION DRIVE TRAIN FAMILY ELECTIVE DRILLS</b>					
MHL5B (3,6,12) HOT LINE SHAFT BRG	X	X	X	X	X
MLHOP (3,6,12) LOSS CRP/CPD PRESSURE		X	X	X	X
MLOLRC (3,6,12) MAJ LEAK REVERSE CONVERTER COUPLING	X				
MLOPRC (3,6,12) LOSS L/O PRESSURE REVERSE CONVERTER COUPLING	X				
MLSCU (3,6,12) LOSS SHAFT CONTROL UNIT	X			X	
MMTF (3,6,12) MODE TRANSITION FAILURE	X				
MNVRG (3,6,12) NOISE/VIBRATION MRG/SHAFT	X	X	X	X	X
MSBFU (3,6,12) SHAFT BRAKE EMERG ENGAGE <sup>1</sup>			X		
<b>ELECTRICAL FAMILY CORE DRILLS</b>					
MBFDG (3,6,12) B FIRE SSDG ENCL	X				X
MBGGM (3,6,12) B FIRE SSGTG MOD		X	X	X	
MDGOH (3,6,12) SSDG OVERHEAT	X				X
MHBGTG (3,6,12) HOT BRG GTG				X	
MLBWL (3,6,12) LOW WATER BOILER		X	X		
MLEPC (3,6,12) LOSS OF EPCC	X	X	X	X	X
MNVGG (3,6,12) UNUSUAL NOISE/ VIBRATION GTG		X	X	X	
MPSFG (3,6,12) POST SHUTDOWN FIRE GTG		X	X	X	
<b>ELECTRICAL FAMILY ELECTIVE DRILLS</b>					
MBPA (3,6,12) BOILER STEAM PRESSURE PART CARRIES AWAY		X	X		
MCCFG (3,6,12) CLASS C FIRE GEN	X	X	X	X	X
MGHIT (3,6,12) HI GT INLET TEMP GTG		X	X	X	

<sup>1</sup> NOT APPLICABLE TO SHIPS WITH SSS CLUTCHES

## COMNAVSURFLANT/PACINST 3502.2E

## MOB-E EXERCISES - GAS TURBINE SHIPS

<b>EXERCISES</b>	<b>AOE6</b>	<b>CG47</b>	<b>DD963</b>	<b>DDG51</b>	<b>FFG7</b>
MHBDG (3,6,12) HOT BRG SSDG	X				X
MLGGO (3,6,12) LOSS L/O PRESSURE GTG		X	X	X	
MLSFC (3,6,12) LOSS STATIC FREQ CONVERTER		X			
MLSSG (3,6,12) LOSS OF S/S GEN	X				X
MOSGG (3,6,12) OVERSPEED SSGTG		X	X	X	
<b>INTEGRATED FAMILY CORE DRILLS</b>					
MCBF (3,6,12) B FIRE MAIN SPACE	X	X	X	X	X
MCCFS (3,6,12) CLASS C FIRE SWBD	X	X	X	X	X
MCFED (3,6,12) CLASS C FIRE EDS	X	X	X	X	X
MLSC (3,6,12) LOSS STEERING CONTROL	X	X	X	X	X
<b>INTEGRATED FAMILY ELECTIVE DRILLS</b>					
MLCWS (3,6,12) LOSS CHILL WATER	X	X	X	X	
MMF (3,6,12) FLOODING MAIN SPACE	X	X	X	X	X

## MOB-E EXERCISES - DIESEL SHIPS

EXERCISES	ARS50	LSD41	LST	MCM	MHC51
<b>MAIN ENGINE DRILL FAMILY</b>					
<b>CORE DRILLS</b>					
MDEGM (3,6,12) MPDE GOV MALF	X	X	X	X	X
MDGEO (3,6,12) MPDE OVERHEAT	X	X	X	X	X
MLACL (3,6,12) LOSS AIR CLUTCH MPDE	X		X	X	
MLMCS (3,6,12) LOSS MACHINERY PLANT CONTROL SYS		X			
MLCA (3,6,12) LOSS CONTROL AIR			X		
MLPCA (3,6,12) LOSS PROP CONTROL AIR		X			
MMFOL (3,6,12) MAJOR F/O LEAK	X	X	X	X	X
<b>MAIN ENGINE DRILL FAMILY</b>					
<b>ELECTIVE DRILLS</b>					
MDECE (3,6,12) MPDE CRANKCASE EXP	X	X	X	X	X
MLFOP (3,6,12) LOSS F/O PRESSURE MAIN ENGINE	X	X	X	X	X
MLLOP (3,6,12) LOSS L/O PRESSURE MAIN ENGINE	X	X	X	X	
MLLPVG (3,6,12) LOSS L/O PRESSURE MPDE/IFVG					X
MNVME (3,6,12) NOISE/VIBRATION MAIN ENGINE/SHAFT	X	X	X	X	
<b>PROPULSION DRIVE TRAIN FAMILY</b>					
<b>CORE DRILLS</b>					
MHBGR (3,6,12) HOT BRG RED GEAR	X	X	X	X	
MHTJB (3,6,12) HOT THRUST/JNL BRG					X
MLALC (3,6,12) LOSS AIR CLUTCH LLPM				X	
MLCRP (3,6,12) LOSS PITCH CONTROL	X	X	X	X	
MLCVSP (3,6,12) LOSS VSP PITCH CONTROL					X
MLHOL (3,6,12) LEAK CRP/CPM SYS	X	X		X	
MLHOP (3,6,12) LOSS CRP/CPM PRESSURE	X			X	
MLLOL (3,6,12) MAJ L/O LEAK RED GEAR	X	X	X	X	
MLLOPR (3,6,12) LOSS L/O PRESSURE REDUCTION GEAR	X	X	X	X	
MLLOLVG (3,6,12) L/O LEAK MPDE/IFVG					X

## COMNAVSURFLANT/PACINST 3502.2E

## MOB-E EXERCISES - DIESEL SHIPS

EXERCISES	ARS50	LSD41	LST	MCM	MHC51
MLVHOP (3,6,12) LOSS VSP PROP HOP					X
MLVLOP (3,6,12) LOSS VSP PROP LOP					X
MLVOL (3,6,12) LEAK VSP LOP SYS					X
<b>PROPULSION DRIVE TRAIN FAMILY</b>					
<b>ELECTIVE DRILLS</b>					
MEDSL (3,6,12) ENG SHAFT LINE LOCK					X
MHBVG HOT IFVG BRG					X
MHL SB (3,6,12) HOT LINE SHAFT BRG	X	X	X	X	
MHPB (3,6,12) HOT PEDESTAL BRG			X		
MLMCC (3,6,12) LOSS MAIN CONTROL CONSOLE (MCC)				X	X
MNV MEDT (3,6,12) NOISE/VIBRATION MPDE/DT					X
MNV RG (3,6,12) NOISE/VIBRATION MRG/SHAFT	X	X	X	X	
<b>ELECTRICAL FAMILY</b>					
<b>CORE DRILLS</b>					
MDGGM (3,6,12) SSDG GOV MALF	X	X	X	X	X
MDGOH (3,6,12) SSDG OVERHEAT	X	X	X	X	X
MFOL SSDG FUEL OIL LEAK	X	X	X		
MHOTG (3,6,12) HI OIL TEMP GTG				X	
MLEPC (3,6,12) LOSS OF EPCC	X	X			
MLOLD (3,6,12) L/O LEAK SSDG					X
<b>ELECTRICAL FAMILY</b>					
<b>ELECTIVE DRILLS</b>					
MCCFG (3,6,12) CLASS C FIRE GEN	X	X	X	X	X
MDGCE (3,6,12) SSDG CRANKCASE EXP	X	X	X	X	X
MDGOL (3,6,12) SSDG OVERLOAD	X	X	X	X	X
MHBDG (3,6,12) HOT BRG SSDG				X	
MHETG (3,6,12) HI EXHST TEMP GTG				X	
MHPBG (3,6,12) HOT PED BRG SSDG		X			

## MOB-E EXERCISES - DIESEL SHIPS

<b>EXERCISES</b>	<b>ARS50</b>	<b>LSD41</b>	<b>LST</b>	<b>MCM</b>	<b>MHC51</b>
MLFOPD (3,6,12) LOSS F/O PRESSURE SSDG	X		X	X	X
MLFOPT (3,6,12) LOSS F/O PRESSURE GT				X	
MLGGO (3,6,12) LOSS L/O PRESSURE GTG				X	
MLLOPD (3,6,12) LOSS L/O PRESSURE SSDG	X		X	X	X
MLSSG (3,6,12) LOSS OF S/S GEN	X	X			
MNVVG (3,6,12) NOISE/VIBRATION SSDG	X	X	X	X	X
MPSFMG (3,6,12) MASTER MAGN PSDF				X	
MOSGG (3,6,12) OVERSPEED SSGTG				X	
<b>INTEGRATED FAMILY</b>					
<b>CORE DRILLS</b>					
MCBF (3,6,12) B FIRE MAIN SPACE	X	X	X	X	X
MCCFS (3,6,12) CLASS C FIRE SWBD	X	X	X	X	X
MCFED (3,6,12) CLASS C FIRE EDS	X	X	X	X	X
MLSC (3,6,12) LOSS STEERING CONTROL	X	X		X	
<b>INTEGRATED FAMILY</b>					
<b>ELECTIVE DRILLS</b>					
MMF (3,6,12) FLOODING MAIN SPACE	X	X	X	X	X
MPCSF (3,6,12) PROG CONTROL FAILURE	X			X	

MOB-N EXERCISES - SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7	D D 9 6 3	D D 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
<b>BASIC PHASE</b>																				
MOB-N-1-SF NAV IN EW ENVIRON	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-N-2-SF OPEN OCEAN NAV	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-N-3-SF CONNING AND STEER-ING AT SEC CONN					X	X			X	X	X	X	X		X	X	X		X	
MOB-N-4-SF PILOTING BY GYRO	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-N-5-SF PRECISION ANCHORING	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-N-6-SF LOW VISIBILITY PILOTING	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-N-7-SF PILOTING-LOSS OF GYRO	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-N-9-SF LOSS OF STEERING	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
<b>REPETITIVE PHASE</b>																				
MOB-N-1-SF (6,12,18) NAV IN EW ENVIRON	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-N-2-SF (3,6,9) OPEN OCEAN NAV	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-N-3-SF (6,12,18) CONNING AND STEER-ING AT SEC CONN					X	X			X	X	X	X	X		X	X	X		X	
MOB-N-4-SF (3,6,9) PILOTING BY GYRO	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-N-5-SF (6,12,18) PRECISION ANCHORING	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-N-6-SF (3,6,9) LOW VISIBILITY PILOTING	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-N-7-SF (3,6,9) PILOTING-LOSS OF GYRO	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-N-9-SF (3,6,9) LOSS OF STEERING	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X

MOB-S EXERCISES-SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7	D D 9 6 3	D D 5 1	F F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
<b>BASIC PHASE</b>																				
MOB-S-1-SF ASTERN REFUELING																			X	X
MOB-S-2-SF HEAVY WEATHER	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-S-3-SF PRECISION ANCHORING	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-S-4-SF MOOR TO BUOY <sup>1</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-S-5-SF MOOR ALONGSIDE PIER OR SHIP AT ANCHOR	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-S-6-SF MAN OVERBOARD <sup>2</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-S-7-SF PREPS ABANDON SHIP	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-S-8-SF VERTREP	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X			
MOB-S-9-SF U/W TRANSFER (SYNTHETIC HIGHLINE)	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-S-10-SF U/W FUEL (DAY) <sup>3</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	
MOB-S-10-SF U/W FUEL (NIGHT) <sup>4</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	
MOB-S-11-SF EMERG BREAKAWAY <sup>5</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-S-12-SF TOW AND BE TOWED <sup>6</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-S-13-SF HELO LAND/LAUNCH	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X		X	
MOB-S-14-SF SAREX	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	
MOB-S-15-SF HIFER					X	X	X	X												

1 MAY BE CONDUCTED DURING TSTA 1 AS SERVICES PERMIT  
 2 CONDUCT BOAT AND SHIP RECOVERY AND REPORT AS ONE EXERCISE COMPLETION.  
 3 MAY BE CONDUCTED DURING TSTA 1 AS SERVICES PERMIT  
 4 MAY BE CONDUCTED DURING TSTA 1 AS SERVICES PERMIT  
 5 MAY BE CONDUCTED DURING TSTA 1 AS SERVICES PERMIT  
 6 MAY BE CONDUCTED DURING TSTA 1 AS SERVICES PERMIT. LCC, LHA, LHD WAIVED.  
 LAY OUT GEAR FOR INSPECTION AND BRIEF.

COMNAVSURFLANT/PACINST 3502.2E

MOB-S EXERCISES - SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7	D D 9 6 3	D D 5 7 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
MOB-S-16-SF U/W PTOVISION, REARM, MSL XFER <sup>7</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	
MOB-S-17-SF A/C RECOVERY											X	X								
MOB-S-25-SF A/C ON DECK REFUEL <sup>8</sup>	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X		X	
MOB-S-X3-SF RESCUE SWIMMER <sup>9</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
<b>ADVANCED PHASE</b>																				
MOB-S-18-SF GET U/W WITH DUTY SECTION <sup>10</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
<b>REPETITIVE PHASE</b>																				
MOB-S-4-SF (12,18,24) MOOR TO BUOY	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-S-6-SF (3,6,9) MAN OVERBOARD <sup>11</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-S-7-SF (6,12,18) PREPS ABANDON SHIP	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-S-9-SF (6,12,18) U/W TRANSFER (SYNTHETIC HIGHLINE)	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
MOB-S-10-SF (6,12,18) U/W REFUELING	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	
MOB-S-13-SF (3,6,9) HELO LAND/LAUNCH	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X		X	
MOB-S-15-SF (3,6,9) HIFER					X	X	X	X												
MOB-S-25-SF (3,6,9) A/C ON DECK REFUEL <sup>12</sup>	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X		X	
MOB-S-33-SF (3,6,9) HOISTING AND LOWERING BOATS	X	X	X		X	X	X	X												
MOB-S-X3-SF (3,6,9) RESCUE SWIMMER <sup>13</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X

<sup>7</sup> MAY BE CONDUCTED DURING TSTA 1 AS SERVICES PERMIT

<sup>8</sup> NOT APPLICABLE TO AO 180 AND 186.

<sup>9</sup> CONDUCT IAW BULLETIN 1600-S3

<sup>10</sup> THIS EXERCISE SHOULD BE CONDUCTED ICW PREDEPLOYMENT PREPS TO EXERCISE DEPLOYED DUTY SECTIONS.

<sup>11</sup> CONDUCT BOAT AND SHIP RECOVERY AND REPORT AS ONE EXERCISE COMPLETION.

<sup>12</sup> NOT APPLICABLE TO AO 180 AND 186.

<sup>13</sup> CONDUCT IAW BULLETIN 1600-S3

NCO EXERCISES-SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A O R S 5 0	C G 4 7	D D 9 6 3	D D 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
<b>BASIC PHASE</b>																				
NCO-1-SF PREPS FOR ELEX SPACES	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
NCO-2-SF ASSIST REMOTE SPACES	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
NCO-11-SF CLASS C FIRE ELEX SP	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
NCO-12-SF EQUIP CASUALTY REPAIR	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
NCO-13-SF ELEX CASUALTY FOLDER	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
NCO-14-SF RAWING EMERGENCY SPARES	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
NCO-15-SF ALT POWER SOURCE	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
NCO-16-SF ECC/ESS	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
NCO-18-SF SECURITY DRILLS	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
NCO-19-SF SMALL ARMS QUALS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
NCO-28-SF ROE	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
NCO-29-SF DEFENSE VS U/W SWIMMERS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
NCO-30-SF S SHIP PENETRATION-BASIC	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
NCO-32-SF TERRORIST A/C ATTACK	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
NCO-33-SF SMALL BOAT ATTACK	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
NCO-34-SF BOMB THREAT	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
NCO-35-SF HOSTAGE SITUATION	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
NCO-38-SF VBSS	X	X	X		X	X	X	X					X		X	X	X			
<b>REPETITIVE PHASE</b>																				
NCO-1-SF (3,6,9) PREPS FOR ELEX SPACES	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
NCO-11-SF (3,6,9) CLASS C FIRE ELEX SP	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
NCO-12-SF (3,6,9) EQUIP CASUALTY REPAIR	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X

COMNAVSURFLANT/PACINST 3502.2E

NCO EXERCISES - SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7	D D 9 6 3	D D 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 7	L S D 1	L S D 3	L S D 4	L S T	M C M	M C S	M H C 5 1
NCO-15-SF (3,6,9) ALT POWER SOURCE	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
NCO-18-SF (3,6,9) SECURITY DRILLS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
NCO-28-SF (1,2,3) ROE <sup>1</sup>	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
NCO-29-SF (12,18,24) DEFENSE VS U/W SWIMMERS	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
NCO-30-SF (12,18,24) SHIP PENETRATION-BASIC	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
NCO-32-SF (6,12,18) TERRORIST A/C ATTACK	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
NCO-33-SF (6,12,18) SMALL BOAT ATTACK	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
NCO-34-SF (6,12,18) BOMB THREAT	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
NCO-35-SF (6,12,18) HOSTAGE SITUATION	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
NCO-36-SF (12,18,24) FLOATING DEVICE	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
NCO-38-SF (6,12,18) VBSS	X	X	X		X	X	X	X					X		X	X	X				

<sup>1</sup> CONDUCT IAW BULLETIN NR NCO-2

STW EXERCISES-SHIPS

EXERCISES	A G F	A O E	A O E	A R S	C G 4 7 0	D D 9 6 3	D D 5 1	F G 7	J C C	L C C	L H A	L H D	L P D	L P D	L S D	L S D	L S D	L S T	M C M	M C S	M H C	5 1
<b>BASIC PHASE</b>																						
STW-1-SF MISSION DATA UPDATE <sup>1</sup>					X	X	X															
STW-21-SF SIM TLAM-C LAUNCH <sup>2</sup>					X	X	X															
<b>REPETITIVE PHASE</b>																						
STW-1-SF (1,2,3) MISSION DATA UPDATE <sup>3</sup>					X	X	X															
STW-2-SF (6,12,18) STRIKE ENVIRON SUP										X	X	X										
STW-21-A (6,12,18) SIM TLAM <sup>4</sup> C/D LAUNCH					X	X	X															

<sup>1</sup> CG-52 AND ABOVE  
<sup>2</sup> CG-52 AND ABOVE  
<sup>3</sup> CG-52 AND ABOVE. TOMAHAWK PROFICIENCY REQUIRES COMPLETION OF STW-1-SF AND STW-21-A.  
<sup>4</sup> CG-52 AND ABOVE. TOMAHAWK PROFICIENCY REQUIRES COMPLETION OF STW-1-SF AND STW-21-A.

COMNAVSURFLANT/PACINST 3502.2E

SUW EXERCISES - SHIPS

EXERCISES	A G F	A O E	A O E	A O E	C R S	D 4 7	D 9 6	D 5 3	F 7	J C	L C	L C	L H	L H	L P	L P	L S	L S	L S	M T	M C	M S	M H	M C
<b>BASIC PHASE</b>																								
SUW-1-SF COMBINED AIR/ SURFACE TRACKING	X	X	X		X	X	X	X		X	X	X	X		X	X					X			
SUW-2-SF LONG RANGE PASSIVE TRACKING & TGTING					X	X	X	X																
SUW-7-SF ALT/LCL CTRL LONG RANGE FIRE, HI SPD TARGET <sup>1</sup>					X	X	X	X																
SUW-9-SF SURFACE TRACKING (NTDS) (AEGIS) <sup>2</sup>					X	X	X	X			X	X												
SUW-10-SF OTH-T					X	X	X	X																
SUW-12-SF VISUAL IDENT COUNTER	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
SUW-13-SF ATTACK/REATTACK EXER FOR SSM SHIPS					X	X	X	X																
SUW-14-SF SAG LAMPS TACTICS					X	X	X	X																
SUW-17-SF HI SPD SURF ENGAGEMENT (MG)	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
SUW-18-SF DATA BASE MGMT					X	X	X			X	X	X												X
SUW-19-SF HI SPD QUICKFIRE EXER					X	X	X	X																
SUW-20-SF CONV SURF TRACKING <sup>3</sup>				X																X	X		X	
SUW-1-I OTH SURVEILLANCE, SEARCH & DETECTION					X	X	X	X																
SUW-3-I SUW FREEPLAY EXER <sup>4</sup>					X	X	X	X																
<b>INTERMEDIATE PHASE</b>																								
SUW-5-SF HSMST					X	X	X	X																

1 LANTFLT SHIPS CONDUCT DURING INTERMEDIATE PHASE  
 2 TO BE CONDUCTED BY EACH CIC WATCH SECTION  
 3 ONLY SHIPS WITH NO AIR SEARCH RADAR.  
 4 LANTFLT SHIPS CONDUCT DURING INTERMEDIATE PHASE

SUW EXERCISES-SHIPS

EXERCISES	A G F	A O E	A O E	A O R	C G 4	D D 9	D D 5	F G 7	J C C	L C C	L H A	L H D	L P D	L P D	L S D	L S D	L S T	M C M	M C S	M H C	
	1	6	5	7	3	1							4	7	6	1				5	
SUW-7-SF ALT/LOC CTRL LONG RANGE FIRE, HI SPD TARGET <sup>5</sup>					X	X	X	X													
SUW-2-I SAG TACTICS W/FIXED WING A/C SUPPORT <sup>6</sup>					X	X	X	X													
SUW-3-I SUW FREEPLAY EXER <sup>7</sup>					X	X	X	X													
<b>REPETITIVE PHASE</b>																					
SUW-10-SF (6,12,18) OTH-T					X	X	X	X													
SUW-12-SF (6,12,18) VISUAL IDENT COUNTER	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	
SUW-13-SF (6,12,18) ATTACK/REATTACK EX FOR SSM SHIPS					X	X	X	X													
SUW-14-SF (6,12,18) SAG LAMPS TACTICS					X	X	X	X													
SUW-17-SF (6,12,18) HI SPD SURF ENG (MG)	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	
SUW-18-SF (6,12,18) DATA BASE MAGMT					X	X	X			X	X	X								X	
SUW-1-I (6,12,18) OTH SURVEILLANCE SEARCH & DETECTION					X	X	X	X													
SUW-2-I (6,12,18) SAG TACTICS W/FIXED WING A/C SUPPORT					X	X	X	X													
SUW-3-I (6,12,18) SUW FREEPLAY EXER					X	X	X	X													
SLAMEX (3,6,9) <sup>8</sup>					X	X	X	X													

<sup>5</sup> PACFLT SHIPS CONDUCT DURING BASIC PHASE  
<sup>6</sup> MAY BE CONDUCTED IN ADVANCED OR INTERMEDIATE PHASE AS SERVICES PERMIT.  
<sup>7</sup> PACFLT SHIPS CONDUCT DURING BASIC PHASE  
<sup>8</sup> SEE BULLETIN 301-1

COMNAVSURFLANT/PACINST 3502.2E

USW EXERCISES - SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A O R S 5 0	C 4 7	D 9 6 3	D 5 1	F 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
<b>BASIC PHASE</b>																				
ASW-1-SF SVTT LOADING					X	X	X	X												
ASW-2-SF SONAR CASUALTY					X	X	X	X										X		X
ASW-3-SF BASIC CONTACT MGMT					X	X	X	X										X		X
ASW-5-SF OWN SHIP SIGNATURE					X	X	X	X												
ASW-6-SF ACOUSTIC ENVIR PREDICTION					X	X	X	X												
ASW-8-SF ACTIVE TRACKING					X	X	X	X												
ASW-9-SF ACTIVE MULTI-MODE LONG RANGE					X	X	X													
ASW-10-SF BASIC ASW FAM					X	X	X	X												
ASW-11-SF UNIDENT CONTACT REPORTING					X	X	X	X												
ASW-13-SF PASS TRACKING SHORT RANGE					X	X	X	X												
ASW-14-SF ASW SEARCH					X	X	X	X												
ASW-15-SF SUB FAM <sup>1</sup>					X	X	X	X												
ASW-16-SF CLOSE RANGE ATTACKS (SIM)					X	X	X	X												
ASW-17-SF ANTI-TORPEDO APPROACH					X	X	X	X												
ASW-18-SF SVTT FIRING <sup>2</sup>					X	X	X	X												
ASW-19-SF RTT FIRING <sup>3</sup>					X	X	X													
ASW-21-SF PASSIVE TRACKING					X	X	X													
ASW-23-SF ASW-A/C VECTACS (SIM)					X	X	X	X												
ASW-24-SF LAMPS VECTAC WEAPON DROP <sup>4</sup>					X	X	X	X												

<sup>1</sup> LANTFLT SHIPS CONDUCT DURING INTERMEDIATE PHASE.  
<sup>2</sup> LANTFLT SHIPS CONDUCT DURING INTERMEDIATE PHASE.  
<sup>3</sup> LANTFLT SHIPS CONDUCT DURING INTERMEDIATE PHASE. VLA CAPABLE SHIPS ONLY  
<sup>4</sup> LANTFLT SHIPS CONDUCT DURING INTERMEDIATE PHASE.

USW EXERCISES-SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R S 0	C 4 7	D 9 6 3	D 5 1	F 7	J C C	L C C	L H A	L H D	L P D 4	L P D 7	L S D 6	L S D 1	L S T	M C M	M C S	M H C 5 1	
ASW-40-SF HELO CONTROL ASW SCREEN <sup>5</sup>					X	X	X	X													
<b>INTERMEDIATE PHASE</b>																					
ASW-15-SF SUB FAM <sup>6</sup>					X	X	X	X													
ASW-18-SF SVTT FIRING <sup>7</sup>					X	X	X	X													
ASW-19-SF RTT FIRING <sup>8</sup>					X	X	X														
ASW-22-SF ASW SCREEN					X	X	X	X													
ASW-24-SF LAMPS VECTAC WEAPON DROP <sup>9</sup>					X	X	X	X													
ASW-26-SF MULTI-SHIP PASSIVE TRACKING <sup>10</sup>					X	X	X	X													
ASW-27-SF LONG RANGE PASSIVE TRACKING <sup>11</sup>					X	X	X	X													
ASW-28-SF CZ/BB OPS					X	X	X														
ASW-29-SF INTERMEDIATE CONTACT MANAGEMENT <sup>12</sup>					X	X	X	X													
ASW-31-SF CLOSE-IN SCREEN SURV FORCE					X	X	X	X													
ASW-32-SF PERIMETER SCREEN SURF FORCE <sup>13</sup>					X	X	X	X													
ASW-33-SF BARRIER SEARCH/DEFEND OBJECTIVE AREA					X	X	X	X													
ASW-34-SF ELEM COUNTERATTACK					X	X	X	X													
ASW-35-SF COORD ATTACK W/EVASION					X	X	X	X													

<sup>5</sup> LANTFLT SHIPS CONDUCT DURING INTERMEDIATE PHASE.  
<sup>6</sup> PACFLT SHIPS CONDUCT DURING BASIC PHASE.  
<sup>7</sup> PACFLT SHIPS CONDUCT DURING BASIC PHASE.  
<sup>8</sup> PACFLT SHIPS CONDUCT DURING BASIC PHASE. VLA CAPABLE SHIPS ONLY.  
<sup>9</sup> PACFLT SHIPS CONDUCT DURING BASIC PHASE.  
<sup>10</sup> TAIL SHIPS ONLY.  
<sup>11</sup> TAIL SHIPS ONLY.  
<sup>12</sup> TAIL SHIPS ONLY.  
<sup>13</sup> TAIL SHIPS ONLY.

COMNAVSURFLANT/PACINST 3502.2E

USW EXERCISES - SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R E 5 0	C G 4 7 3	D D 9 6 1	D D G 5 7	F G G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1	
ASW-38-SF CZ-EX PASSIVE BUOY <sup>14</sup>					X	X	X	X													
ASW-40-SF HELO CTRL ASW SCN					X	X	X	X													
ASW-41-SF LAMPS III HELO CONTROL <sup>15</sup>					X	X	X	X													
ASW-42-SF SHIP/FIXED WING A/C CONTROL					X	X	X	X													
ASW-43-SF LAMPS III/SHIP ATTACK <sup>16</sup>					X	X	X	X													
ASW-44-SF CZ/BB SEARCH & ATTACK					X	X	X														
<b>ADVANCED PHASE</b>																					
ASW-1-I AREA SEARCHEX					X	X	X	X													
ASW-2-I COORD DATUMEX					X	X	X	X													
ASW-3-I TRANSITEX - COORD OFFENSIVE ASW					X	X	X	X													
ASW-4-I OPPOSED SORTIE					X	X	X	X													
ASW-5-I SHALLOW WATER EXER					X	X	X	X													
ASW-10-I OUTER ZONE SCREENEX					X	X	X	X													
ASW-13-I LINKEX-TAC DATA LINK OPS					X	X	X	X													
<b>REPETITIVE PHASE</b>																					
ASW-2-SF (3,6,9) SONAR CASUALTY DRILL					X	X	X	X											X		X
ASW-5-SF (6,12,18) OWN SHIP ACOUSTIC SIGNATURE					X	X	X	X													
ASW-6-SF (3,6,9) ACOUSTIC ENVIR PREDICTION					X	X	X	X											X		X
ASW-11-SF (3,6,9) UNIDENT CONTACT REPORTING					X	X	X	X													
ASW-17-SF (6,12,18) ANTI-TORPEDO APPROACH					X	X	X	X													
ASW-18-SF (6,12,18) SVTT FIRING					X	X	X	X													

<sup>14</sup> LAMPS MK III CAPABLE SHIPS ONLY.

<sup>15</sup> LAMPS MK III CAPABLE SHIPS ONLY.

<sup>16</sup> LAMPS MK III CAPABLE SHIPS ONLY.

USW EXERCISES-SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A O R S 5 0	C G 4 7	D D 9 6 3	D D G 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
ASW-19-SF (6,12,18) RTT FIRING <sup>17</sup>					X	X	X													
ASW-23-SF (6,12,18) ASW A/C VECTACS (SIM)					X	X	X	X												
ASW-24-SF (6,12,18) LAMPS VECTACS - WEAPON DROP					X	X	X	X												
ASW-26-SF (6,12,18) MULTI-SHIP PASSIVE TRACK <sup>18</sup>					X	X	X	X												
ASW-27-SF (6,9,12) LONG RANGE PASSIVE TRACK <sup>19</sup>					X	X	X	X												
ASW-28-SF (6,9,12) CZ/BB OPS					X	X	X													
ASW-29-SF (6,9,12) INTERMEDIATE CONTACT MANAGMENT <sup>20</sup>					X	X	X	X												
ASW-38-SF (6,12,18) CZ EX(PASS) <sup>21</sup>					X	X	X	X												
ASW-42-SF (6,9,12) SHIP/FIXED WING					X	X	X	X												
DIRECT PATH CONTACT TIME (ACTIVE) (1,1,1) <sup>22</sup>					X	X	X	X												
BB/CZ CONTACT TIME (1,1,1) <sup>23</sup>					X	X	X													
HULL BROADBAND CONTACT TIME (1,1,1) <sup>24</sup>					X	X	X													
HULL NARROWBAND CONTACT TIME (1,1,1) <sup>25</sup>					X	X	X													
TOWED ARRAY CONTACT TIME (1,1,1) <sup>26</sup>					X	X	X	X												
PASSIVE GRAM ANALYSIS CONTACT TIME (1,1,1) <sup>27</sup>					X	X	X	X												
ASW-45-SF (6,12,18) ASW ENVIRONMENTAL SUP									X	X	X	X								
ASW-2-I (3,6,12) COORD DATUMEX					X	X	X	X												

<sup>17</sup> VLA CAPABLE SHIPS ONLY.

<sup>18</sup> TAIL SHIPS ONLY.

<sup>19</sup> TAIL SHIPS ONLY.

<sup>20</sup> TAIL SHIPS ONLY.

<sup>21</sup> LAMPS MKIII CAPABLE SHIPS ONLY

<sup>22</sup> SEE ASW BULLETIN 410 FOR CONTACT TIME NOTES

<sup>23</sup> SEE ASW BULLETIN 410 FOR CONTACT TIME NOTES

<sup>24</sup> SEE ASW BULLETIN 410 FOR CONTACT TIME NOTES

<sup>25</sup> SEE ASW BULLETIN 410 FOR CONTACT TIME NOTES

<sup>26</sup> SEE ASW BULLETIN 410 FOR CONTACT TIME NOTES. TAIL SHIPS ONLY.

<sup>27</sup> SEE ASW BULLETIN 410 FOR CONTACT TIME NOTES

COMNAVSURFLANT/PACINST 3502.2E

USW EXERCISES - SHIPS

EXERCISES	A G F	A O E 1	A O E 6	A R E 5 0	C G 4 7	D D 6 3	D D 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 7	L S D 6	L S D 1	L S D 4	L S T	M C M	M C S	M H C 5 1
ASW-5-I (3,6,9) SHALLOW WATER					X	X	X	X													

COMNAVSURFLANT/PACINST 3502.2E

AMW EXERCISES - UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H C H G R P	B C H P T M	T A C R O N	B A R G E F E R R Y	M I U U N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
<b>BASIC PHASE</b>														
AMW-10-SF BOAT BEACH RETRACT		X	X											
AMW-11-SF SURF OBSERVATIONS						X								
AMW-14-SF CARGO HANDLING FROM L/C OVER THE BEACH		X	X			X								
AMW-17-SF BEACHMASTER TRAFFIC CONTROL						X								
AMW-18-SF BEACHMASTER SALVAGE						X								
AMW-19-SF LOAD/UNLOAD CARGO & VEHICLES ON BEACH						X								
AMW-20-SF LARC V WET WELL OPERATIONS						X								
AMW-22-SF CAUSEWAY PIER OPERATIONS	X													
AMW-23-SF OPEN WATER CAUSEWAY FLEXING								X						
AMW-24-SF DEPLOY/RETRACT BUOY & AABFS	X													
AMW-25-SF LST CON AABFS	X	X												
AMW-26-SF ASSAULT CRAFT ASSIST BEACHING			X											
AMW-41-SF STERNGATE MARRIAGE BETWEEN LCUS		X												
AMW-44-SF LCU TOWING/BEING TOWED <sup>1</sup>		X	X											
AMW-49-SF ESTABLISH BMU COMMAND POST ASHORE						X								
AMW-50-SF PHIBCB FIELD EXERCISE	X													
AMW-54-SF LCAC MISSION PLANNING AND BRIEF				X										
AMW-57-SF LCAC FORMATION FLYING				X										

<sup>1</sup> LCM-8 USE LCU EXERCISE UNTIL FXP-5 MODIFIED.

AMW EXERCISES-UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B C H P T M	T A C R O N	B A R G E F E R Y	M I U F N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
AMW-59-SF LCAC BEACH CROSSINGS/OVERLAND OPS (DAY)				X										
AMW-60-SF LCAC BEACH CROSSINGS/OVERLAND OPS (NIGHT)				X										
AMW-63-SF LCAC HARBOR TRANSIT USING FMT				X										
AMW-64-SF LCAC HARBOR TRANSIT (DAY)				X										
AMW-65-SF LCAC HARBOR TRANSIT (NIGHT)				X										
AMW-68-SF LCAC SHORE OPS INDOC				X										
AMW-75-SF WATERBOURNE MEDEVAC BY LCM-8			X											
AMW-5-I SACC AIR OPS							X							
AMW-10-I TACCEX							X							
AMW-17-I SACCEX							X							
AMW-18-I LOST PLANE EMERGENCY TANKING							X							
AMW-20-I CONTROL ASSAULT HELO/FIXED WING A/C BY TACC/HDC							X							
<b>INTERMEDIATE PHASE</b>														
AMW-51-SF MAJOR AMPHIB EXERCISE PARTICIPATION <sup>2</sup>									X	X	X			X
AMW-52-SF NAVAL BEACH GROUP EXERCISE <sup>3</sup>									X	X	X			X
AMW-56-SF LCAC WELL DECK ARRIVAL AND DEPARTURE (NIGHT)				X										
AMW-62-SF LCAC SHIP/SHORE MOVEMENT UNDER POSITIVE CONTROL				X										
AMW-66-SF LCAC OTH OPS (DAY)				X										

<sup>2</sup> WHEN REQUIRED BY OPSKED AND OR ISIC

<sup>3</sup> WHEN REQUIRED BY OPSKED AND OR ISIC

COMNAVSURFLANT/PACINST 3502.2E

AMW EXERCISES - UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B C H P T M	T A C R O N	B A R G E F E R Y	M I U W U N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
AMW-67-SF LCAC OTH OPS (NIGHT)				X										
AMW-74-SF ASSEMBLY/DISASSY OF THE RRDF	X													
AMW-77-SF NAVAL BEACH GROUP MPF EXERCISE <sup>4</sup>									X					
<b>ADVANCED PHASE</b>														
AMW-42-SF LCU PONTOON CAUSEWAY MARRIAGE		X												
AMW-43-SF LCU DEPLOY/RETRACT BUOYANT AABFS		X												
AMW-52-SF NBGEX	X	X	X	X	X	X								
AMW-53-SF BEACH PARTY/GROUP FEP						X								
AMW-58-SF LCAC LAUNCH OF AAV				X										
AMW-72-SF CAMP CONST	X													
AMW-73-SF INSERT/OPER/ RETRIEVE ELCAS <sup>5</sup>	X													
AMW-76-SF INSTALL/OPER/RETRO ELCAS-M <sup>6</sup>	X													
AMW-77-SF NBG NSE OPS IN SUPPORT OF MPF SHIP OFFLOADS					X									
AMW-20-I CONTROL ASSAULT HELO, F/W A/C							X							
<b>REPETITIVE PHASE</b>														
AMW-10-SF (6,9,12) A/C BEACH RETRACT		X	X											
AMW-11-SF (3,6,9) SURF OBSERVATION						X								

<sup>4</sup> WHEN REQUIRED BY OPSKED AND OR ISIC

<sup>5</sup> PACFLT ONLY

<sup>6</sup> LANTFLT ONLY.

## AMW EXERCISES-UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B C H P T M	T A C R O N	B A R G E F E R Y	M I U N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
AMW-14-SF (3,6,9) CARGO HANDLING FM L/C OVER BEACH		X	X											
AMW-17-SF (6,9,12) BEACHMASTER TRAFFIC CONTROL						X								
AMW-18-SF (6,9,12) BEACHMASTER SALVAGE						X								
AMW-19-SF (6,9,12) LOAD/UNLOAD CARGO/ VEHICLES OVER BEACH						X								
AMW-20-SF (6,9,12) LARC V WET WELL OPS						X								
AMW-22-SF (6,9,12) CAUSEWAY PIER OPS	X													
AMW-23-SF (6,9,12) OPEN WATER CAUSEWAY FLEXING								X						
AMW-24-SF (6,9,12) DEPLOY/RETRACT AABFS	X													
AMW-26-SF (6,9,12) A/C ASSIST BEACHING				X										
AMW-41-SF (6,12,18) STERNGATE MARRIAGE BETWEEN LCUS		X												
AMW-44-SF (12,18,24) LCU TOWING/BEING TOWED <sup>7</sup>		X	X											
AMW-49-SF (6,9,12) ESTAB BEACHMASTER COMMAND POST						X								
AMW-50-SF (6,9,12) PHIBCB FIELD EXERCISE	X													
AMW-54-SF (3,6,9) LCAC MISSION PLANNING AND BRIEF				X										
AMW-55-SF (3,6,9) LCAC WELL DECK ARRIVAL AND DEPARTURE (DAY)				X										
AMW-56-SF (3,6,9) LCAC WELL DECK ARRIVAL AND DEPARTURE (NIGHT)				X										
AMW-57-SF (3,6,9) LCAC FORMATION FLYING				X										
AMW-59-SF (3,6,9) LCAC BEACH CROSSINGS/OVERLAND OPS (DAY)				X										

<sup>7</sup> LCM-8 USE LCU EXERCISE UNTIL FXP-5 MODIFIED.

COMNAVSURFLANT/PACINST 3502.2E

AMW EXERCISES - UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B C H P T M	T A C R O N	B A R G E F E R Y	M I U U N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
AMW-60-SF (3,6,9) LCAC BEACH CROSSINGS/OVERLAND OPS (NIGHT)				X										
AMW-64-SF (6,12,18) LCAC HARBOR TRANSIT (DAY)				X										
AMW-65-SF (6,12,18) LCAC HARBOR TRANSIT (NIGHT)				X										
AMW-66-SF (6,12,18) LCAC OTH OPS (DAY)				X										
AMW-67-SF (6,12,18) LCAC OTH OPS (NIGHT)				X										
AMW-72-SF (12,18,24) CAMP CONSTRUCTION	X													
AMW-73-SF (12,18,24) INSERT/OPER/ RETRIEVE ELCAS <sup>8</sup>	X													
AMW-74-SF (12,18,24) ASSEMBLY/DISASSY RRDF	X													
AMW-75-SF (3,6,9) WATERBORNE MEDEVAC BY LCM-8			X											
AMW-76-SF (12,18,24) INSTAL/OPER/RETRO OF ELCAS-M <sup>9</sup>	X													
AMW-77-SF (12,18,24) NBG MPF EXERCISE					X									
AMW-5-I (3,6,9) SACC AIR OPS							X							
AMW-10-I (6,12,18) TACCEX							X							
AMW-17-I (12,18,24) SACCEX							X							
AMW-18-I (3,6,9) LOST PLANE/EMERG TANK ASSIST							X							
AMW-20-I (6,12,18) CONTROL ASSAULT HELO, F/W A/C							X							

<sup>8</sup> PACFLT ONLY

<sup>9</sup> LANTFLT ONLY.

AW EXERCISES-UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B H P T Y G R M	T A C R O N	B A R G E F E R R Y	M I U W U N I T	I B U W G S T A F F	N I U W D	M D S D D	F M D D	H D C U N I T
<b>BASIC PHASE</b>														
AAW-3-SF RADAR/IFF TRACKING								X						
AAW-3-I A/C CONTROL ACM								X						
AAW-4-I LOST PLANE HOMING								X						
<b>ADVANCED PHASE</b>														
AAW-16-SF LIVE AAWEX								X						
AAW-10-I COORDINATED CAP/ MISSILE EMPLOYMENT								X						
<b>REPETITIVE PHASE</b>														
AAW-3-SF (3,6,9) RADAR/IFF TRACKING								X						
AAW-3-I (3,6,9) A/C CONTROL ACM								X						
AAW-4-I (3,6,9) LOST PLANE HOMING								X						

COMNAVSURFLANT/PACINST 3502.2E

C2W EXERCISES - UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B C H P T M	T A C R O N	B A R G E F E R Y	M I U U N I T	I B U U S T A F F	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
<b>BASIC PHASE</b>														
C2W-3-SF EXTENDED EMISSION CONTROL EXERCISE									X	X	X			X
C2W-4-SF EMISSION CONTROL SETTING AND MODIFICATION									X	X	X			X
C2W-5-SF SATELLITE VULNERABILITY EXERCISE									X	X	X			X
<b>REPETITIVE PHASE</b>														
C2W-3-SF (12,24,36) EXTENDED EMISSION CONTROL EXERCISE									X	X	X			X
C2W-4-SF (3,6,9) EMISSION CONTROL SETTING AND MODIFICATION									X	X	X			X

CCC EXERCISES-UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B H A P T M	T A C R O N	B A R G E F E R Y	M I U W U N I T	I B U W G S T A F F	N I D S D D	M D D	F D D	H D C U N I T
<b>BASIC PHASE</b>														
CCC-1-SF SYSTEM CONTROL - FLEET SATELLITE BROADCAST TYPE N									X	X				X
CCC-2-SF COMMUNICATIONS OPERATIONAL PLANNING									X	X	X			X
CCC-4-SF SYSTEM CONTROL - SHIP TERMINATION (B, C, D & G SYSTEMS)									X	X				X
CCC-5-SF SYSTEM CONTROL - SECURE/NON-SECURE VOICE									X	X	X			X
CCC-6-SF R/T DRILLS	X	X	X	X	X	X	X	X	X	X	X			X
CCC-8-SF TTY CIRCUIT PROCEDURES									X	X				X
CCC-9-SF FLAGHOIST		X												
CCC-10-SF FLASHING LIGHT <sup>1</sup>		X				X								
CCC-11-SF SEMAPHORE <sup>2</sup>		X				X								
CCC-12-SF IMITATIVE DECEPTION	X	X	X	X	X	X	X	X						
CCC-13-SF EMERGENCY DESTRUCTION	X	X	X	X	X	X	X	X	X	X	X			X
CCC-24-SF SYSTEM CONTROL - NARROWBAND/WIDEBAND SATELLITE COMMUNICATIONS SYSTEM									X	X				X
CCC-25-SF SYSTEM CONTROL - SHF SATELLITE										X				X
CCC-29-SF OTCIXS / TADIX SYS EXERCISE									X	X				X

<sup>1</sup> PACFLT ONLY

<sup>2</sup> PACFLT ONLY

CCC EXERCISES - UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B H A P T M	T A C R O N	B A R G E F E R Y	M I U W U N I T	I B U W G S T A F F	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
CCC-30-SF SYSTEM CONTROL - OTAT/OTAR									X	X				X
<b>INTERMEDIATE PHASE</b>														
CCC-19-SF COMPREHENSIVE COMMUNICATIONS ASSESSMENT									X	X	X			X
<b>REPETITIVE PHASE</b>														
CCC-1-SF (3,6,9) SYSTEM CONTROL - FLEET SATELLITE BROADCAST TYPE N									X		X			X
CCC-2-SF (3,6,9) COMMUNICATIONS OPERATIONAL PLANNING									X	X	X			X
CCC-4-SF (3,6,9) SYSTEM CONTROL - SHIP TERMINATION (B, C, D & G SYSTEMS)									X		X			X
CCC-5-SF (3,6,9) SYSTEM CONTROL - SECURE/NON-SECURE VOICE									X	X	X			X
CCC-6-SF (3,6,9) R/T DRILLS	X	X	X	X	X	X	X	X	X	X	X			X
CCC-8-SF (3,6,9) TTY CIRCUIT PROCEDURES									X		X			X
CCC-9-SF (3,6,9) FLAGHOIST		X												
CCC-10-SF (3,6,9) FLASHING LIGHT <sup>3</sup>		X				X								
CCC-11-SF (3,6,9) SEMAPHORE <sup>4</sup>		X				X								
CCC-12-SF (3,6,9) IMITATIVE DECEPTION	X	X	X	X	X	X	X	X						
CCC-13-SF (3,6,9) EMERGENCY DESTRUCTION	X	X	X	X	X	X	X	X	X	X	X			X

<sup>3</sup> PACFLT ONLY

<sup>4</sup> PACFLT ONLY

CCC EXERCISES-UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B H A P C T R O N	T A R G E T F E R R Y	M I U W U N I T	I B U W G S T A F F	N I U W D	M D S D	F M D D	H D C U N I T
CCC-24-SF SYSTEM CONTROL - NARROWBAND/WIDEBAND SATELLITE COMMUNICATIONS SYSTEM								X		X			X
CCC-25-SF SYSTEM CONTROL - SHF SATELLITE COMMS										X			X
CCC-29-SF OTCIXS / TADIX SYS EXERCISE								X		X			X
CCC-30-SF SYSTEM CONTROL - OTAT/OTAR								X		X			X

## EOD EXERCISES - UNITS

EXERCISES	MCM	MOB	SHORE <sup>1</sup>	MMS MK 5/6	MMS MK 4/7	ASD	OCD	COMM
<b>BASIC PHASE</b>								
EOD-CCC-1 TACTICAL COMMS	X	X	X	X	X	X	X	X
EOD-CCC-2 EMERGENCY DESTRUCTION	X	X	X	X	X	X	X	X
EOD-FSO-1 IMP EXPL DEVICE	X	X	X					
EOD-FSO-2 CHEM/BIO ORD		X						
EOD-FSO-3 CONV ORD	X	X	X				X	
EOD-FSO-4 U/W ORD	X	X	X					
EOD-FSO-5 DIVING EMERGENCY	X	X	X	X	X		X	
EOD-FSO-6 NUKE A/I		X	X					
EOD-FSO-7 LIMPET MINE PROC.	X	X	X					
EOD-FSO-8 RECOMPRESSION CHAMBER PROCEDURES	X	X	X	X	X		X	
EOD-FSO-9 DEMOLITION PROC.	X	X	X		X		X	
EOD-INT-1 INTEL COLLECTION	X	X					X	
EOD-MIW-1 MINE LOCATION	X	X			X		X	
EOD-MIW-2 MINE NEUTRALIZATION	X	X			X			
EOD-MIW-3 MINE RECOVERY	X				X			
EOD-MIW-4 INITIAL MINE TECHEVAL	X							
EOD-MIW-5 DESTRUCTION OF FLOATING/DRIFTING MINES IN BG/ARG	X	X					X	
EOD-MOB-1 RAPID DEPLOYMENT	X	X		X	X	X	X	X
EOD-MOB-2 PARACHUTE INSERTION		X <sup>2</sup>						

<sup>1</sup> EXERCISES FOR SHORE DETS WILL BE DETERMINED BY ROC/POE

COMNAVSURFLANT/PACINST 3502.2E

EOD EXERCISES - UNITS

EXERCISES	MCM	MOB	SHORE <sup>1</sup>	MMS MK 5/6	MMS MK 4/7	ASD	OCD	COMM
EOD-MOB-3 HIE PROCEDURES	X	X						
EOD-MOB-4 HELO CAST AND RECOVERY PROC.	X	X						
EOD-MOB-5 LAND NAVIGATION	X	X						
<b>INTERMEDIATE PHASE</b>								
EOD-CCC-1 TACTICAL COMMS	X	X	X	X	X	X	X	X
EOD-CCC-2 EMERGENCY DESTRUCTION	X	X	X	X	X	X	X	X
EOD-FSO-1 IMP EXPLOSIVE DEVICE	X	X	X					
EOD-FSO-2 CHEM/BIO ORD		X						
EOD-FSO-3 CONV ORD	X	X	X				X	
EOD-FSO-4 U/W ORD	X	X	X					
EOD-FSO-5 DIVING STA EMERG	X	X	X	X	X		X	
EOD-FSO-6 NUKE A/I		X	X					
EOD-FSO-7 LIMPET MINE PROC.	X	X	X					
EOD-FSO-8 RECOMPRESSION CHAMBER PROCEDURES	X	X	X	X	X		X	
EOD-FSO-9 DEMOLITION PROC.	X	X	X		X		X	
EOD-INT-1 INTEL COLLECTION	X	X	X					
EOD-MIW-1 MINE LOCATION	X	X			X			
EOD-MIW-2 MINE NEUTRALIZATION	X	X			X		X	
EOD-MIW-3 MINE RECOVERY	X				X			
EOD-MIW-4 INITIAL MINE TECHEVAL	X							

<sup>2</sup> ONE MOBILE DETACHMENT PER MOBILE UNIT AS DETERMINED BY ROC/POE REQUIREMENTS

## EOD EXERCISES - UNITS

EXERCISES	MCM	MOB	SHORE <sup>1</sup>	MMS MK 5/6	MMS MK 4/7	ASD	OCD	COMM
EOD-MIW-5 DESTRUCTION OF FLOATING/DRIFTING MINES IN BG/ARG						X		
EOD-MOB-1 RAPID DEPLOYMENT	X	X			X	X	X	X
EOD-MOB-2 PARACHUTE INSERTION		X <sup>3</sup>	X					
EOD-MOB-3 HIE PROCEDURES	X	X						
EOD-MOB-4 HELO CAST AND RECOVERY PROC.	X	X						
EOD-MOB-5 LAND NAVIGATION	X	X						
<b>ADVANCED PHASE</b>								
EOD-CCC-1 TACTICAL COMMS	X	X	X	X	X	X	X	X
EOD-CCC-2 EMERGENCY DESTRUCTION	X	X	X	X	X	X	X	X
EOD-FSO-1 IMP EXPLOSIVE DEVICE	X	X	X					
EOD-FSO-2 CHEM/BIO ORD		X						
EOD-FSO-3 CONV ORD	X	X	X				X	
EOD-FSO-4 U/W ORD	X	X	X					
EOD-FSO-5 DIVING STA EMERG	X	X	X	X	X		X	
EOD-FSO-6 NUKE A/I		X	X					
EOD-FSO-7 LIMPET MINE PROC.	X	X	X					
EOD-FSO-8 RECOMPRESSION CHAMBER PROCEDURES	X	X	X	X	X		X	
EOD-FSO-9 DEMOLITION PROC.	X	X	X		X		X	
EOD-INT-1 INTEL COLLECTION	X	X	X					
EOD-MIW-1 MINE LOCATION	X	X			X			

<sup>3</sup> ONE MOBILE DETACHMENT PER MOBILE UNIT AS DETERMINED BY ROC/POE REQUIREMENTS

COMNAVSURFLANT/PACINST 3502.2E

EOD EXERCISES - UNITS

EXERCISES	MCM	MOB	SHORE <sup>1</sup>	MMS MK 5/6	MMS MK 4/7	ASD	OCD	COMM
EOD-MIW-2 MINE NEUTRALIZATION	X	X			X		X	
EOD-MIW-3 MINE RECOVERY	X				X			
EOD-MIW-4 INITIAL MINE TECHEVAL	X							
EOD-MIW-5 DESTRUCTION OF FLOATING/DRIFTING MINES IN BG/ARG						X		
EOD-MOB-1 RAPID DEPLOYMENT	X	X		X	X	X	X	X
EOD-MOB-2 PARACHUTE INSERTION		X <sup>4</sup>	X					
EOD-MOB-3 HIE PROCEDURES	X	X						
EOD-MOB-4 HELO CAST AND RECOVERY PROC.	X	X						
EOD-MOB-5 LAND NAVIGATION	X	X						
<b>REPETITIVE PHASE</b>								
EOD-CCC-1 (3,6,9) TACTICAL COMMS	X	X	X	X	X	X	X	X
EOD-CCC-2 (3,6,9) EMERGENCY DESTRUCTION	X	X	X	X	X	X	X	X
EOD-FSO-1 (3,6,9) IMP EXPLOSIVE DEVICE	X	X	X					
EOD-FSO-2 (3,6,9) CHEM/BIO ORD		X						
EOD-FSO-3 (3,6,9) CONV ORD	X	X	X				X	
EOD-FSO-4 (3,6,9) U/W ORD	X	X	X					
EOD-FSO-5 (3,6,9) DIVING STA EMERG	X	X	X				X	
EOD-FSO-6 (3,6,9) NUKE A/I		X	X					
EOD-FSO-7 LIMPET MINE PROC.	X	X	X					

<sup>4</sup> ONE MOBILE DETACHMENT PER MOBILE UNIT AS DETERMINED BY ROC/POE REQUIREMENTS

## COMNAVSURFLANT/PACINST 3502.2E

## EOD EXERCISES - UNITS

EXERCISES	MCM	MOB	SHORE <sup>1</sup>	MMS MK 5/6	MMS MK 4/7	ASD	OCD	COMM
EOD-FSO-8 RECOMPRESSION CHAMBER PROCEDURES	X	X	X	X	X		X	
EOD-FSO-9 DEMOLITION PROC.	X	X	X		X		X	
EOD-INT-1 (3,6,9) INTEL COLLECTION	X	X	X					
EOD-MIW-1 (3,6,9) MINE LOCATION	X	X			X			
EOD-MIW-2 (3,6,9) MINE NEUTRALIZATION	X	X <sup>5</sup>			X		X	
EOD-MIW-3 (3,6,9) MINE RECOVERY	X				X			
EOD-MIW-4 (3,6,9) INITIAL MINE TECHEVAL	X							
EOD-MIW-5 (3,6,9) DESTRUCTION OF FLOATING/DRIFTING MINES IN BG/ARG						X		
EOD-MIW-6 (3,6,9) SMALL CRAFT VECTERING	X					X		
EOD-MOB-1 (3,6,9) RAPID DEPLOYMENT	X	X			X	X	X	X
EOD-MOB-2 (3,6,9) PARACHUTE INSERTION		X <sup>6</sup>	X					
EOD-MOB-3 HIE PROCEDURES	X	X						
EOD-MOB-4 HELO CAST AND RECOVERY PROC.	X	X						
EOD-MOB-5 LAND NAVIGATION	X	X						

<sup>5</sup> ONE MOBILE DETACHMENT PER MOBILE UNIT AS DETERMINED BY ROC/POE REQUIREMENTS

<sup>6</sup> ONE MOBILE DETACHMENT PER MOBILE UNIT AS DETERMINED BY ROC/POE REQUIREMENTS

COMNAVSURFLANT/PACINST 3502.2E

FSO-M EXERCISES - UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B H P T Y G R M	T A C R O N	B A R G E F E R R Y	M I U W U N I T	I B U	N I U W G S T A F F	H D C U N I T
<b>BASIC PHASE</b>												
FSO-M-2-SF CASUALTY TRANSPORT		X	X	X					X	X	X	X
FSO-M-3-SF FRACTURE	X	X	X	X	X	X		X				
FSO-M-4-SF CHEST WOUND	X	X	X	X	X	X		X				
FSO-M-5-SF ABDOMINAL WOUND	X	X	X	X	X	X		X				
FSO-M-6-SF AMPUTATION	X	X	X	X	X	X		X				
FSO-M-7-SF FACE WOUND	X	X	X	X	X	X		X				
FSO-M-8-SF SF ELECT SHOCK	X	X	X	X	X	X		X	X	X	X	X
FSO-M-10-SF SMOKE INHALATION	X	X	X	X	X	X		X	X	X	X	X
FSO-M-11-SF BURNS	X	X	X	X	X	X		X				
<b>REPETITIVE PHASE</b>												
FSO-M-2-SF (3,6,9) CASUALTY TRANSPORT		X	X	X					X	X	X	X
FSO-M-3-SF (3,6,9) FRACTURE	X	X	X	X	X	X		X	X	X	X	X
FSO-M-4-SF (3,6,9) CHEST WOUND	X	X	X	X	X	X		X	X	X	X	X
FSO-M-5-SF (3,6,9) ABDOMINAL WOUND	X	X	X	X	X	X		X	X	X	X	X
FSO-M-6-SF (3,6,9) AMPUTATION	X	X	X	X	X	X		X	X	X	X	X
FSO-M-7-SF (3,6,9) FACE WOUND	X	X	X	X	X	X		X	X	X	X	X
FSO-M-8-SF (3,6,9) SF ELECT SHOCK	X	X	X	X	X	X		X	X	X	X	X
FSO-M-10-SF (3,6,9) SMOKE INHALATION	X	X	X	X	X	X		X	X	X	X	X

FSO-M EXERCISES-UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B H P T Y G T M	T A C R O N	B A R G E F E R R Y	M I U W U N I T	I B U	N I U W G S T A F F	H D C U N I T
FSO-M-11-SF (3,6,9) BURNS	X	X	X	X	X	X		X	X	X	X	X

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B H P T Y G T M	T A C R O N	B A R G E F E R Y	M I U W U N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
<b>BASIC PHASE</b>														
FSO-S-3-SF BEACH GEAR OPERATION												X	X	
FSO-S-4-SF EMERGENCY PUMPING OPERATIONS												X	X	
FSO-S-6-SF RECOVERY OF SUBMERGED WEIGHT												X	X	
FSO-S-7-SF UNDERWATER CUTTING AND WELDING OPS												X	X	
FSO-S-8-SF UNDERWATER CUTTING, PATCHING AND DEWATERING OPERATIONS												X	X	
FSO-S-14-SF DIVER REQUALIFICATION												X	X	
FSO-S-15-SF SURFACE DECOMPRESSION												X	X	
FSO-S-16-SF RECOMPRESSION CHAMBER - TREATMENT/OPERATOR TRAINING												X	X	
FSO-S-17-SF DEMOLITION TRAINING												X	X	
FSO-S-18-SF UNDERWATER PHOTO/UNDERWATER DAMAGE ASSESSMENT TV (UDATS)												X	X	
FSO-S-19-SF UNDERWATER HYDRAULIC/PNEUMATIC TOOL TRAINING												X	X	
FSO-S-20-SF DIVING STATIONS EMERGENCY PROCEDURES												X	X	
FSO-S-23-SF FLY-AWAY MIXED GAS/FLY-AWAY AIR DIVING SYSTEM (FMGS/FADS)												X	X	
FSO-S-24-SF LIFT BAGS/SALVAGE PONTOON TRAINING												X		
<b>ADVANCED PHASE</b>														
FSO-S-2-SF TOWING GROUNDED SHIP W/O BEACH GEAR												X		
FSO-S-3-SF BEACH GEAR OPERATION												X		
<b>REPETITIVE PHASE</b>														
FSO-S-3-SF BEACH GEAR OPERATION												X	X	

COMNAVSURFLANT/PACINST 3502.2E

FSO-S EXERCISES - UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B H P T Y G T M	T A C R O N	B A R G E F E R R Y	M I U W U N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
FSO-S-4-SF EMERGENCY PUMPING OPERATIONS												X	X	
FSO-S-6-SF RECOVERY OF SUBMERGED WEIGHT												X	X	
FSO-S-7-SF UNDERWATER CUTTING AND WELDING OPS												X	X	
FSO-S-8-SF UNDERWATER CUTTING, PATCHING AND DEWATERING OPERATIONS												X	X	
FSO-S-14-SF DIVER REQUALIFICATION												X	X	
FSO-S-15-SF SURFACE DECOMPRESSION												X	X	
FSO-S-16-SF RECOMPRESSION CHAMBER - TREATMENT/OPERATOR TRAINING												X	X	
FSO-S-17-SF DEMOLITION TRAINING												X	X	
FSO-S-18-SF UNDERWATER PHOTO/UNDERWATER DAMAGE ASSESSMENT TV (UDATS)												X	X	
FSO-S-19-SF UNDERWATER HYDRAULIC/PNEUMATIC TOOL TRAINING												X	X	
FSO-S-20-SF DIVING STATIONS EMERGENCY PROCEDURES												X	X	
FSO-S-23-SF FLY-AWAY MIXED GAS/FLY-AWAY AIR DIVING SYSTEM (FMGS/FADS)												X	X	
FSO-S-24-SF LIFT BAGS/SALVAGE PONTOON TRAINING												X		

INT EXERCISES-UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H C H G R P	B C H P T M	T A C R O N	B A R G E F E R Y	M I U U N I T	I B U W S T A F F	N I U G S T A F F	M D S D	F M D D	H D C U N I T
<b>BASIC PHASE</b>														
INT-1-SF (OP) OPERATIONAL INTELLIGENCE DATA COLLECTION												X		X
INT-1-SF (RP) INTELLIGENCE REPORTING - LOCATORS												X		X
INT-2-SF (OP) OPERATIONAL INTELLIGENCE PLOT AND BRIEF												X		X
INT-2-SF (RP) INTELLIGENCE REPORTING AND IIR												X		X
INT-3-SF (OP) C2W/INFO WARFARE CONNECTIVITY												X		X
<b>ADVANCED PHASE</b>														
INT-1-SF (IS) INTELLIGENCE INFORMATION RETRIEVAL												X		X
INT-1-SF (MS) INTELLIGENCE COLLECTION AND REPORTING TEAM												X		X
INT-1-SF (OP) OPERATIONAL INTELLIGENCE DATA COLLECTION									*	*	X			X
INT-1-SF (RP) INTELLIGENCE REPORTING - LOCATORS									*	*	X			X
INT-2-SF (IS) JOINT DEPLOYABLE INTELLIGENCE SUPPORT SYS												X		X
INT-2-SF (OP) OPERATIONAL INTELLIGENCE PLOT AND BRIEF												X		X
INT-2-SF (RP) INTELLIGENCE REPORTING AND IIR									*	*	X			X
INT-3-SF (BF) AREA THREAT BRIEF												X		X
INT-3-SF (OP) C2W/INFO WARFARE CONNECTIVITY												X		X

\* WHEN REQUIRED BY OPSKED AND/OR ISIC

COMNAVSURFLANT/PACINST 3502.2E

INT EXERCISES - UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B C H P T M	T A C R O N	B A R G E F E R Y	M I U U N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
INT-4-SF (RP) SURVINTCOLEX											X			X
INT-5-SF (IS) INTELLIGENCE LIBRARY											X			X
<b>REPETITIVE PHASE</b>														
INT-1-SF (OP) (3,6,9) OPERATIONAL INTELLIGENCE DATA COLLECTION											X			X
INT-1-SF (RP) (3,6,9) INTELLIGENCE REPORTING - LOCATORS											X			X
INT-2-SF (OP) (3,6,9) OPERATIONAL INTELLIGENCE PLOT AND BRIEF											X			X
INT-2-SF (RP) (3,6,9) INTELLIGENCE REPORTING AND IIR											X			X
INT-3-SF (OP) (3,6,9) C2W/INFO WARFARE CONNECTIVITY											X			X

MOB-D EXERCISES-UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B H P T Y G T M	T A C R O N	B A R G E F E R R Y	M I U W U N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
<b>BASIC PHASE</b>														
MOB-D-1-SF (24,4 MESSING AT BATTLE STATIONS									X	X	X			X
MOB-D-2-SF RELIEF OF VITAL STATIONS									X	X	X			X
MOB-D-3-SF MANNING BATTLE STATIONS									X	X	X			X
MOB-D-L02 FIRE EXT/SMOKE CLEARANCE <sup>1</sup>				X										
MOB-D-L03 CRAFT FIRE IN WELL DECK <sup>2</sup>				X										
MOB-D-L05 CARGO DECK FIRE <sup>3</sup>				X										
MOB-D-9-SF MAIN SPACE FIRE		X								X				
MOB-D-11-SF SETTING MATERIAL CONDITIONS		X								X				
MOB-D-12-SF UNERWATER HULL DAMAGE		X												
MOB-D-13-SF SHORING		X								X				
MOB-D-14-SF FIRE EXT/SMOKE CLEARANCE		X								X				
MOB-D-20-SF ISOLATE/PIPE PATCH		X								X				
MOB-D-21-SF MAJOR FLOOD PROPULSION SPACE		X								X				
MOB-D-23-SF LOCATE DC FITTINGS		X												
MOB-D-24-SF DARKEN SHIP		X								X				
MOB-D-28-SF CBR WARFARE DEFENSE	X	X	X	X	X	X			X	X	X			X
MOB-D-29-SF LARK V P-250 D/WTR						X								
MOB-D-30-SF LCAC CARGO DECK FIRE				X										
<b>REPETITIVE PHASE</b>														
MOB-D-L02 (3,6,9) FIRE EXT/SMOKE CLEARANCE <sup>4</sup>				X										

<sup>1</sup> EXERCISE CONTAINED IN SEAOPS MANUAL  
<sup>2</sup> EXERCISE CONTAINED IN SEAOPS MANUAL  
<sup>3</sup> EXERCISE CONTAINED IN SEAOPS MANUAL

COMNAVSURFLANT/PACINST 3502.2E

MOB-D EXERCISES - UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B H P T Y T M	T A C R O N	B A R G E F E R R Y	M I U W U N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
MOB-D-L03 (3,6,9) CRAFT FIRE IN WELL DECK <sup>5</sup>				X										
MOB-D-L05 (3,6,9) CARGO DECK FIRE <sup>6</sup>				X										
MOB-D-9-SF (3,6,9) MAIN SPACE FIRE		X							X					
MOB-D-11-SF (3,6,12) SETTING MATERIAL CONDITIONS		X												
MOB-D-12-SF (3,6,12) UNERWATER HULL DAMAGE		X		X					X					
MOB-D-14-SF (3,6,9) FIRE EXT/SMOKE CLEARANCE		X							X					
MOB-D-20-SF (3,6,12) ISOLATE/PIPE PATCH		X							X					
MOB-D-21-SF (3,6,9) MAJOR FLOOD PROPULSION SPACE		X							X					
MOB-D-23-SF (3,6,9) LOCATE DC FITTINGS		X												
MOB-D-24-SF (1,2,3) DARKEN SHIP		X							X					
MOB-D-28-SF (12,24,36) CBR WARFARE DEFENSE	X	X	X	X	X	X			X	X	X			X
MOB-D-29-SF (3,6,12) LARK V P-250 D/WTR						X								
MOB-D-30-SF (3,6,12) LCAC CARGO DECK FIRE				X										

<sup>4</sup> EXERCISE CONTAINED IN SEAOPS MANUAL  
<sup>5</sup> EXERCISE CONTAINED IN SEAOPS MANUAL  
<sup>6</sup> EXERCISE CONTAINED IN SEAOPS MANUAL

MOB-E EXERCISES-UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B H P T Y G R M	T A C R O N	B A R G E F E R Y	M I U W U N I T	I B U W G S T A F F	N I D S D	M D D	F M D	H D C U N I T
<b>BASIC PHASE</b>														
MOB-E-004-SF JAMMED RUDDER		X	X							X				
MOB-E-005-SF MAJOR FO LEAK		X	X					X		X				
MOB-E-007-SF NOISE M.E./MRG								X						
MOB-E-010-SF MAJ LEAK ME LO SYS		X	X											
MOB-E-011-SF CLASS C FIRE SWBD		X							X	X	X			X
MOB-E-012-SF CLASS C FIRE GEN		X							X	X	X			X
MOB-E-015-SF LOSS CPP PITCH CONTROL				X										
MOB-E-016-SF OVERHEATING DIESEL		X	X					X	X	X	X			X
MOB-E-L37 LOSS OF GENERATOR <sup>1</sup>				X										
MOB-E-L41 OVER TEMP/FIRE IN APU COMPARTMENT <sup>2</sup>				X										
MOB-E-110-SF JAMMED THROTTLE								X		X				
MOB-E-200-SF CRANKCASE EXPLOSION		X	X					X		X				
MOB-E-201-SF SSDG CRANKCASE EXP		X							X	X	X			X
MOB-E-202-SF NOISE/VIB MPDE		X	X					X		X				
MOB-E-203-SF NOISE/VIB DIESEL GEN									X	X	X			X
MOB-E-204-SF LOW/LOSS LO MPDE		X	X					X						
MOB-E-205-SF LOSS/LOW PRESS SSDG		X							X	X	X			X

<sup>1</sup> EXERCISE CONTAINED IN SEAOPS MANUAL  
<sup>2</sup> EXERCISE CONTAINED IN SEAOPS MANUAL

COMNAVSURFLANT/PACINST 3502.2E

MOB-E EXERCISES - UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B H P T Y G T M	T A C R O N	B A R G E F E R Y	M I U W U N I T	I B U W G S T A F F	N I D S D	M D D	F M D D	H D C U N I T
MOB-E-206-SF LOSS FO PRESS/MP		X	X							X				
MOB-E-207-SF LOSS FO PRESS SSDG		X						X	X	X				X
MOB-E-208-SF MPDE GOV MALFUNCTION		X	X					X	X					
MOB-E-212-SF GENERATOR OVERLOAD		X												
MOB-E-306-SF POST SHUTDOWN FIRE/PTC				X										
MOB-E-307-SF CLASS B FIRE TURB MODULE				X										
MOB-E-309-SF GT OVERSPEED				X										
MOB-E-310-SF PWR TURBINE OVERSPEED				X										
MOB-E-313-SF CLASS B FIRE GTG MODULE				X										
MOB-E-317-SF LOW LO PRESS GTG				X										
MOB-E-319-SF POST SUTDOWN FIRE GTG				X										
MOB-E-328-SF LOSS ME FO PRESS				X										
<b>REPETITIVE PHASE</b>														
MOB-E-004-SF (3,6,9) JAMMED RUDDER		X	X							X				
MOB-E-005-SF (3,6,9) MAJOR FO LEAK		X	X					X	X					
MOB-E-007-SF (3,6,9) NOISE M.E./MRG								X	X					
MOB-E-011-SF (3,6,9) CLASS C FIRE SWBD		X							X	X	X			X
MOB-E-012-SF (3,6,9) CLASS C FIRE GEN		X							X	X	X			X
MOB-E-015-SF (3,6,9) LOSS CPP PITCH CONTROL				X										

## MOB-E EXERCISES-UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B H P T Y G R M	T A C R O N	B A R G E F E R R Y	M I U W U N I T	I B U W G S T A F F	N I D S D	M D D	F H D C U N I T
MOB-E-016-SF (3,6,12) OVERHEATING DIESEL		X	X					X	X	X	X		X
MOB-E-L37 (3,6,9) LOSS OF GENERATOR <sup>3</sup>				X									
MOB-E-L41 (3,6,9) OVER TEMP/FIRE IN APU COMPARTMENT <sup>4</sup>				X									
MOB-E-110-SF (3,6,9) JAMMED THROTTLE								X		X			
MOB-E-200-SF (3,6,9) CRANKCASE EXPLOSION		X	X					X		X			
MOB-E-201-SF (3,6,9) SSDG CRANKCASE EXP		X							X	X	X		X
MOB-E-202-SF (3,6,9) NOISE/VIB MPDE		X						X		X			
MOB-E-203-SF (3,6,9) NOISE/VIB IN SSDG		X							X	X	X		X
MOB-E-204-SF (3,6,9) LOW/LOSS LO MPDE		X	X					X					
MOB-E-205-SF (3,6,9) LOSS/LOW PRESS SSDG		X							X	X	X		X
MOB-E-206-SF (3,6,9) LOSS LO PRESS/MP		X	X							X			
MOB-E-207-SF (3,6,9) LOSS FO PRESS SSDG		X							X	X	X		X
MOB-E-208-SF (3,6,9) MPDE GOV MALFUNCTION		X	X					X		X			
MOB-E-212-SF (3,6,12) GENERATOR OVERLOAD		X											
MOB-E-306-SF (3,6,12) POST SHUTDOWN FIRE/PTC				X									
MOB-E-307-SF (3,6,12) CLASS B FIRE TURB MODULE				X									
MOB-E-309-SF (3,6,12) GT OVERSPEED				X									
MOB-E-310-SF (6,12,18) PWR TURBINE OVERSPEED				X									
MOB-E-313-SF (3,6,12) CLASS B FIRE GTG MODULE				X									

<sup>3</sup> EXERCISE CONTAINED IN SEAOPS MANUAL

<sup>4</sup> EXERCISE CONTAINED IN SEAOPS MANUAL

COMNAVSURFLANT/PACINST 3502.2E

MOB-E EXERCISES - UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B H P T Y G T M	T A C R O N	B A R G E F E R R Y	M I U W U N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
MOB-E-317-SF (6,12,18) LOW LO PRESS GTG				X										
MOB-E-319-SF (3,6,12) POST SUTDOWN FIRE GTG				X										
MOB-E-328-SF (3,6,12) LOSS ME FO PRESS				X										

COMNAVSURFLANT/PACINST 3502.2E

MOB-N EXERCISES - UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B H A P T Y G R M	T A C R O N	B A R G E F E R Y	M I U W U N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
<b>BASIC PHASE</b>														
MOB-N-4-SF PILOTING BY GYRO		X												
MOB-N-6-SF LOW VIS PILOTING		X												
MOB-N-7-SF LOSS OF GYRO		X												
<b>REPETITIVE PHASE</b>														
MOB-N-4-SF (6,9,12) PILOTING BY GYRO		X												
MOB-N-6-SF (3,6,9) LOW VIS PILOTING		X												
MOB-N-7-SF (3,6,9) LOSS OF GYRO		X												

MOB-S EXERCISES - UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B H P T Y G R M	T A C R O N	B A R G E F E R R Y	M I U W U N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
<b>BASIC PHASE</b>														
MOB-S-2-SF HEAVY WEATHER		X								X				
MOB-S-3-SF PRECISION ANCHORING		X		X						X				
MOB-S-4-SF MOORING TO BUOY		X												
MOB-S-5-SF MOORING TO PIER/SHIP		X	X					X		X				
MOB-S-6-SF MAN OVERBOARD		X	X					X		X				
MOB-S-7-SF PREP ABANDON SHIP		X								X				
MOB-S-12-SF TOW AND BE TOWED										X				
MOB-S-14-SF SAREX							X		X	X				
MOB-S-26-SF MOUNT OUT SEL ELEM/DET	X			X	X	X	X	X						
MOB-S-27-SF LARC ENTER LEAV SURF						X								
MOB-S-28-SF LARC MAN OVERBOARD						X								
MOB-S-29-SF LCM 8 EMERG RAMP RAISE						X								
MOB-S-31-SF LCAC MAN OVERBOARD				X										
MOB-S-32-SF LCAC PREP ABANDON CRAFT				X										
<b>REPETITIVE PHASE</b>														
MOB-S-2-SF (12,24,36) HEAVY WEATHER										X				
MOB-S-3-SF (6,9,12) PRECISION ANCHORING		X		X						X				
MOB-S-5-SF (3,6,9) MOORING TO PIER/SHIP		X	X					X		X				
MOB-S-6-SF (3,6,9) MAN OVERBOARD		X	X					X		X				

COMNAVSURFLANT/PACINST 3502.2E

MOB-S EXERCISES-UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B H P T Y T M	T A C R O N	B A R G E F E R R Y	M I U W U N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
MOB-S-7-SF (6,12,18) PREP ABANDON SHIP		X								X				
MOB-S-12-SF (6,12,18) TOW AND BE TOWED				X						X				
MOB-S-14-SF (3,6,9) SAREX							X		X	X				
MOB-S-26-SF (3,6,9) MOUNT OUT SEL ELEM/DET	X				X		X	X						
MOB-S-27-SF (3,6,9) LARC ENTER LEAV SURF						X								
MOB-S-28-SF (3,6,9) LARC MAN OVERBOARD						X								
MOB-S-29-SF (3,6,9) LCM 8 EMERG RAMP RAISE						X								
MOB-S-31-SF (3,6,9) LCAC MAN OVERBOARD				X										
MOB-S-32-SF (6,9,12)) LCAC PREP ABANDON CRAFT				X										

NCO EXERCISES-UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B C H P T M	T A C R O N	B A R G E F E R Y	M I U W U N I T	I B U W G S T A F F	N D S D	M D D	F M D	H D C U N I T
<b>BASIC PHASE</b>														
NCO-3-SF INVESTIGATION AND REPORTING BATTLE DAMAGE									X	X	X			X
NCO-4-SF REPORT OF ELECTRONIC CASUALITES									X	X	X			X
NCO-5-SF ELECTRONIC EQUIP REPAIR W/O LIGHTING									X		X			X
NCO-6-SF USE OF INSTALLED SPARE FUSES									X	X	X			X
NCO-11-SF CLASS "C" FIRE ELECTRONIC SPACES									X		X			X
NCO-12-SF EQUIPMENT CASUALTY REPAIR									X		X			X
NCO-13-SF USE OF ELECTRONICS CASUALTY CONTROL FOLDER									X		X			X
NCO-18-SF SECURITY DRILLS									X	X	X			X
NCO-19-SF SMALL ARMS QUALIFICATION										X	X			X
NCO-33-SF SMALL BOAT ATTACK										X	X			X
NCO-34-SF BOMB THREAT											X			X
NCO-37-SF OPREP-3 MESSAGE PREPARATION AND REPORTING									X	X	X			X
NCO-38-SF VBSS										X				
<b>ADVANCED PHASE</b>														
NCO-29-SF DEFENSE AGAINST ATTACK BY UNDERWATER SWIMMERS									*	*	*			*
NCO-32-SF TERRORIST AIRCRAFT ATTACK									*	*	*			*

\* WHEN REQUIRED BY OPSKED AND/OR DESIGNATED B ISIC

COMNAVSURFLANT/PACINST 3502.2E

NCO EXERCISES - UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B C H P T M	T A C R O N	B A R G E F E R Y	M I U W U N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
NCO-35-SF HOSTAGE SITUATION									*	*	*			*
NCO-36-SF FLOATING DEVICE									*	X				
<b>REPETITIVE PHASE</b>														
NCO-3-SF (6,12,18) INVESTIGATION AND REPORTING BATTLE DAMAGE									X	X	X			X
NCO-4-SF (6,12,18) REPORT OF ELECTRONIC CASUALITES									X	X	X			X
NCO-5-SF (6,12,18) ELECTRONIC EQUIP REPAIR W/O LIGHTING									X		X			X
NCO-6-SF (6,12,18) USE OF INSTALLED SPARE FUSES									X	X	X			X
NCO-11-SF (6,12,18) CLASS "C" FIRE ELECTRONIC SPACES									X		X			X
NCO-12-SF (6,12,18) EQUIPMENT CASUALTY REPAIR									X		X			X
NCO-13-SF (6,12,18) USE OF ELECTRONICS CASUALTY CONTROL FOLDER									X		X			X
NCO-18-SF (3,6,9) SECURITY DRILLS									X	X	X			X
NCO-33-SF (12,24,36) SMALL BOAT ATTACK										X	X			X
NCO-34-SF (12,24,36) BOMB THREAT											X			X
NCO-37-SF (3,6,9) OPREP-3 MESSAGE PREPARATION AND REPORTING									X	X	X			X
NCO-38-SF (12,24,36) VBSS										X				

NSW EXERCISES-UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B C H P T M	T A C R O N	B A R G E F E R Y	M I U W U N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
<b>BASIC PHASE</b>														
NSW B-1.10 CONTACT TRACKING EXERCISE										X				
NSW B-1.12 CONVOY SUPPORT EXERCISE										X				
NSW B-1.14 ENGAGE SURFACE CONTACT EXERCISE										X				
NSW B-1.15 TARGET ILLUMINATION EXERCISE										X				
NSW B-1.16 COMBAT FIRST AID / MEIDCAL EVACUATION EXERCISE										X				
NSW B-1.17 COMBAT SEARCH AND RESCUE EXERCISE										X				
NSW B-1.18 LIVE FIRE SMALL ARMS PROFICIENCY EXERCISE										X				
<b>ADVANCED PHASE</b>														
NSW B-1.02 FORWARD BASE DEFENSE EXERCISE										*				
NSW B-1.08 DIRECT FIRE SUPPORT EXERCISE										*				
NSW B-1.11 HIGH SPEED ATTACK EXERCISE										*				
<b>REPETITIVE PHASE</b>														
NSW B-1.10 (3,6,9) CONTACT TRACKING EXERCISE										X				
NSW B-1.12 (6,12,18) CONVOY SUPPORT EXERCISE										X				
NSW B-1.14 (3,6,9) ENGAGE SURFACE CONTACT EXERCISE										X				
NSW B-1.15 (12,24,36) TARGET ILLUMINATION EXERCISE										X				
NSW B-1.16 (12,24,36) COMBAT FIRST AID / MEDICAL EVACUATION										X				

\* WHEN REQUIRED BY OPSKED AND/OR ISIC

COMNAVSURFLANT/PACINST 3502.2E

NSW EXERCISES - UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B C H P T M	T A C R O N	B A R G E F E R R Y	M I U W U N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
NSW B-1.17 (12,24,36) COMBAT SEARCH AND RESCUE EXERCISE										X				
NSW B-1.18 (12,24,36) LIVE FIRE SMALL ARMS PROFICIENCY EXERCISE										X				

COMNAVSURFLANT/PACINST 3502.2E

SUW EXERCISES - UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B C H P T Y T M	T A C R O N	B A R G E F E R Y	M I U U N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
<b>BASIC PHASE</b>														
SUW-9-SF SURFACE TRACKING									X					
SUW-18-SF DATA BASE MANAGEMENT														
<b>ADVANCED PHASE</b>														
SUW-9-SF SURFACE TRACKING									X					
SUW-17-SF SHORT RANGE, HIGH SPEED SURFACE ENGAGEMENT WITH MACHINE GUNS										X				
SUW-18-SF DATA BASE MANAGEMENT														
SUW-19-SF HIGH SPEED, QUICKFIRE EXERCISE										X				
<b>REPETITIVE PHASE</b>														
SUW-9-SF (3,6,9) SURFACE TRACKING									X					
SUW-17-SF (12,24,36) SHORT RANGE, HIGH SPEED SURFACE ENGAGEMENT WITH MACHINE GUNS										X				
SUW-18-SF (3,6,9) DATA BASE MANAGEMENT														
SUW-19-SF (12,24,36) HIGH SPEED, QUICKFIRE EXERCISE										X				

USW EXERCISES-UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B C H P T M	T A C R O N	B A R G E F E R R Y	M I U W U N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
<b>BASIC PHASE</b>														
ASW-3-SF BASIC CONTACT MANAGEMENT AND MULTI- SENSOR CORRELATION									X					
ASW-6-SF ACOUSTIC ENVIRONMENTAL PREDICTION									X					
ASW-11-SF UNIDENTIFIED CONTACT REPORTING									X					
ASW-13-SF PASSIVE TRACKING (SHORT RANGE)									X					
ASW-6-I IUWEX: INSHORE UNDERSEA WARFARE EXERCISE									X					
<b>ADVANCED PHASE</b>														
ASW-29-SF INTERMEDIATE CONTACT MANAGEMENT AND MULTI-SENSOR CORRELATION									X					
ASW-33-SF SEARCH / DEFEND OBJECTIVE AREA									*					
ASW-37-SF CONTACT MANAGEMENT AND MULTI-SENSOR CORRELATION									X					
ASW-5-I SHALLOW WATER EXERCISE									*					
ASW-6-I IUWEX: INSHORE UNDERSEA WARFARE EXERCISE									X					
<b>REPETITIVE PHASE</b>														
ASW-3-SF BASIC CONTACT MANAGEMENT AND MULTI- SENSOR CORRELATION									X					
ASW-6-SF ACOUSTIC ENVIRONMENTAL PREDICTION									X					

\* WHEN REQUIRED BY OPSKED AND/OR ISIC

COMNAVSURFLANT/PACINST 3502.2E

USW EXERCISES - UNITS

EXERCISES	P H I B C B	L C U	L C M 8	L C A C	B E A C H G R P	B C H P T M	T A C R O N	B A R G E F E R R Y	M I U W U N I T	I B U	N I U W G S T A F F	M D S D	F M D D	H D C U N I T
ASW-11-SF UNIDENTIFIED CONTACT REPORTING									X					
ASW-13-SF PASSIVE TRACKING (SHORT RANGE)									X					
ASW-37-SF CONTACT MANAGEMENT AND MULTI-SENSOR CORRELATION									X					
ASW-6-I IUWEX: INSHORE UNDERSEA WARFARE EXERCISE									X					

## APPENDIX B

## TRAINING READINESS CAPPING

- Ref: (a) NWP 1-03.3 (Rev. A) (Status of Resources and Training System (SORTS))  
 (b) COMNAVSURFLANT/PACINST 3540.11 (Engineering Operations Assessment, Training, and Qualification for Conventionally Powered Surface Ships)

B-101. **General.** Due to the structuring of mission area training requirements, overall percentages of exercise completions often do not give a true indication of actual combat readiness. There are special requirements (e.g., weapons firings and use of live services) and circumstances (e.g., failure of a major operational inspection), whose importance should override the normal C/M-rating computation process. In the event one of these occurs, the normal training readiness calculation procedure (Chapter 5, Section 2) will continue; however, the SORTS-reported result will be no higher than the cap imposed. These overrides, discussed below, apply only to the training elements of the SORTS mission/ resource categories. For example, only two of three missile firings successfully completed will result in an M2 cap in the AW training M-rating, while being designated by ISIC for restricted operations due to failure to meet minimum propulsion plant readiness requirements for unrestricted operations will result in an M4 cap in the MOB training M-rating and a C4 cap in CRTNG.

B-102. **Mission Area Caps**

a. **AMW.** AMW readiness is dependent upon participation in two critical sequential training events: Amphibious warfare specialty training (individual ship training) and then participation in an amphibious exercise (multi-ship training). CRUDES AMW readiness is dependent upon completion of NSFS qualification/requalification.

(1) For CRUDES units, M-4 cap for failure or expired NSFS qualification (FIREX-I)/ requalification (FIREX-II), including newly commissioned ships which have not completed initial qualification, if AMW is a primary mission area.

(2) M-3 cap for failure to complete Amphibious Specialty Warfare Training in the case of amphibious units.

(3) M-2 cap for non-participation in a multi-ship amphibious exercise prior to scheduled deployment.

(4) Resume normal reporting upon clearing of the capping limitation. If a ship that has not had Amphibious Warfare Specialty Training participates in an amphibious exercise then successful participation will remove the M-3 cap.

b. **AW** (SURFPAC only)

(1) M2 cap in AW if only 2 of 3 required missile firings successfully completed (CG, DDG, DD, LHD, FFG, AOE).

(2) M2 cap in AW if only 1 of 2 missile required firings successfully completed (LHA, LSD 41/49 with RAM).

(3) M2 cap if no firing of dual-purpose gun system in the last 90 days. (No specific exercise is required. Test firing/ PACFIRE will suffice.)

(4) M2 cap if no live air tracking is conducted in the last 90 days. (No dedicated services are required. Targets of opportunity are acceptable.)

(5) M3 cap if two of the above AW caps are applicable.

**COMNAVSURFLANT/PACINST 3502.2E**

(6) M3 cap in AW if only 1 or none of 3 required missile firings successfully completed (CG, DDG, DD, FFG, AOE, LHD).

(7) M3 cap in AW if none of two required missile firings successfully completed (LHA, LSD 41/49 with RAM).

(8) Resume normal reporting upon clearing of the capping limitation.

c. AW (SURFLANT only)

(1) Caps will be determined by a point system that is weighted to reflect the ships capability to engage a surface-to-air missile target at the earliest possibility.

(2) Points are awarded in accordance with the following table:

PRESENTATION	1 <sup>ST</sup> VALID	2 <sup>ND</sup> VALID	3 <sup>RD</sup> VALID
AAW-11-SF STREAM	Target #1 = 1.0 Target #2 = 1.0	Target #1 = 0.5 Target #2 = 0.5	Target #1 = 0.25 Target #2 = 0.25
AAW-11-SF SINGLE <sup>1</sup>	N/A	0.5	0.25
AAW-18/19-SF <sup>2</sup>	1.0	0.5	0.25
AAW-27-SF	1.0	0.5	0.25

**Table B-1 AAW Exercise Point Allocation**

(3) M-Rating caps are determined by cumulative point count in accordance with the following table:

	CG/DDG/FFG	DD/AOE/LSD/LHD
M1	> 2.9	> 1.9
M2	2.5 – 2.9	1.5 – 1.9
M3	2.0 – 2.4	1.0 – 1.4
M4	0 – 1.9	0 – 0.9

**Table B-2 AAW Exercise M-Rating Caps**

(4) Ships equipped with RAM as the only surface-to-air missile system (LHA, LSD-41) are required to complete only the AAW-11-SF STREAM RAID. These ships will be capped at M-2 if exercise credit is received for only one of two targets and capped at M-3 if no exercise credit is received.

(5) Ships equipped with both RAM and NSSMS (DD, LHD) are required to engage one of the AAW-11-SF STREAM RAID targets with RAM and one with NSSMS. The AW-27-SF will be engaged with NSSMS. These ships will be capped in accordance with the procedures outlined above.

(6) Additionally, an M2 cap will apply for no firing of dual-purpose gun system in the last 90 days. (No specific exercise is required. Test firing/ PACFIRE will suffice.)

<sup>1</sup> The single target AAW-11-SF will be executed only when a ship successfully engages one of the two targets in the AAW-11-SF Stream Raid. Because the ship used one of its two allocated missiles in the Stream Raid, only one target in support of one allocated missile is required in subsequent AAW-11-SF attempts. Limited telemetry missile allocations preclude the authorization of a third missile to repeat the Stream Raid.

<sup>2</sup> CG/DDG/FFG only

(a) M2 cap if no firing of dual-purpose gun system in the last 90 days. (No specific exercise is required. Test firing/ PACFIRE will suffice.)

d. C2W

(1) M2 cap if ESM detection and analysis exercise (C2W-2-SF) not conducted with live services in the last six months.

(2) M2 cap if live chaff firing exercise (C2W-11-SF) is not conducted during the IDTC.

(3) M2 cap if EW Assessment examination (C2W-14-SF) is not completed and/or a shipboard average of 70% is not achieved.

(4) Resume normal reporting upon clearing of the capping limitation.

e. CCC and MOB

(1) M2 cap if ship is not underway overnight in the last 30 days.

(2) M3 cap if ship is not underway overnight in the last 60 days.

(3) Resume normal reporting upon clearing of the capping limitation.

f. MIW. MIW readiness is dependent upon participation in four critical sequential training events: MCM warfare specialty training, MIW evaluation, FEP, and participation in an integrated MCM exercise involving SMCM, AMCM, and EOD MCM assets.

(1) M3 cap for failure to complete MCM warfare specialty training.

(2) Failure to complete MIW evaluation is discussed in paragraph B-103.

(3) M2 cap for non-participation in a RONEX.

(4) Resume normal reporting upon clearing of the capping limitation. Successful participation in a RONEX will remove the M3 cap for a ship which has not completed MCM warfare specialty training.

g. STW.

(1) M-4 cap for failed or expired Cruise Missile Tactical Qualification including newly converted/commissioned ships which have not completed initial qualification.

h. SUW

(1) M2 cap if no live firing with ship's main gun battery in the last 90 days. (No specific exercise is required. Test firing/PACFIRE will suffice.)

(2) For lack of Cruise Missile Tactical Qualification: M3 cap for failure or expired qualification, including newly converted/commissioned ships which have not completed initial qualification.

(3) Resume normal reporting upon clearing of the capping limitation.

i. USW

**COMNAVSURFLANT/PACINST 3502.2E**

(1) M2 cap if both the ASW-19-SF, RTT Firing, and the ASW-24-SF, LAMPS VECTAC Weapons Drop, have not been conducted in the last 12 months.

(2) M2 cap if no live active/passive contact, as defined in paragraph 6205.a.(4), in the last 90 days.

(3) M3 cap if the above two USW caps are applicable.

(4) M3 cap if the ASW-18-SF, SVTT Firing, has not been conducted for 12 months.

(5) Resume normal reporting upon clearing of the capping limitation.

**B-103. Inspection/Evolution/Certification Caps.** Reference (a) states that the failure of a major inspection will result in an initial M-rating of M4 for the appropriate mission area, and an initial C-rating of C4 in the training and/or equipment resource area as appropriate. As equipment and training deficiencies are corrected, mission and resource area status should be upgraded as appropriate.

a. For Restricted Operations (RO), as described in reference (b), in level of knowledge, fire fighting (training related), or operations failure: C4 in CRTNG and M4 in MOB mission area. Ships will retain the C4/M4 cap until ISIC certifies ship for unrestricted operations.

b. For failure to perform OCSOT/AAW Detect-to-Engagement:

(1) C4 in CRTNG and M4 in any mission area evaluated Unsatisfactory.

(2) Resume normal reporting upon satisfactory completion of OCSOT/AAW Detect-to-Engagement.

c. For failure to complete MIW evaluation:

(1) M4 cap in MIW.

(2) C4 cap in appropriate resource categories.

(3) Resume normal reporting upon successful completion of subsequent reinspection or reevaluation of failed areas.

B-104. In each of the above situations, the ship will continue normal TRNGREP reporting. It will make appropriate SORTS changes as occurring, provided those changes result in the mission area being at the capped level or at a lower M-rating. If the normal computation procedure makes the M-rating higher than the capped level, the capped level will be used for SORTS reporting purposes. If the normal computation procedure makes the M-rating lower than the capped level, the lower rating will be used. Reporting caps apply regardless of the training phase in which the ship is operating. In reporting capped mission area, the following reason codes will be assigned in Part I with amplifying Part II comments:

TIP - For cap due to inspection failure.

THH - For cap due to incomplete firing or proficiency test.

THF - For cap due to failed firing or proficiency test.

TZZ - For any other training-related cap.

For example, a CG 47 class ship which has completed 86% of its AAW training requirements (M1 training level), but has conducted only one of three required missile firings, is capped at M3. The ship must use M3 for AAW training (in SORTS computations) and report "THH" as the reason code. If the ship's training exercise percentage were 54.9% or below, the ship would be required to use M4 for training in SORTS calculations.

## APPENDIX C

## PRE-APPROVED EXERCISE EQUIVALENCIES

Ref: (a) COMNAVSURFLANT/PACINST 3502.3  
 (b) OPNAVINST 1500.71

C-101. **General.** The following matrix lists those exercises approved for readiness reporting under the type commanders' exercise equivalency program. This exercise equivalency program includes only scenarios run on own ship's systems whether generated from shore-based/mobile (van) scenario generators or embedded/on board scenario generators.

a. When accomplished via shore-based or mobile team training devices of the major fleet schools (e.g. FCTCs, FASWTCs, TACTRAGRUs, and ATGs), the exercises listed in these matrices are specifically pre-approved as equivalencies.

b. When accomplished by shipboard embedded/on board trainers, the exercises listed in these matrices are approved as equivalencies provided that approved scenarios (as listed in reference (a) warfare area bulletin for the scenario generator concerned) are used. Other scenarios must be approved by the ATG or the type commander.

C-102. As indicated in Article 6107, equivalencies will not be granted for actual weapons firings except as noted therein. In addition, specific exercises designated as readiness caps must be satisfactorily performed. Exercises claimed by equivalence will not remove or negate caps.

## C-103. Included Scenario Generation Devices

## a. Shore-based:

TACDEW	Tactical Advanced Combat Direction and Electronic Warfare System
ENWGS	Enhanced Navy Wargaming System
20B4	Mobile Combat Systems Trainer, Device 20B4
20B5	Mobile Combat Systems Trainer, Device 20B5
RAVIR	Radar Video Recorder

## b. On board/embedded:

ACTS	AEGIS Combat Training System
E/RESS	Enhanced/Radar Environmental Simulator System, AN/USQ-93
VSS	Video Simulation System
SQQ89 OBT	AN/SQQ-89 On Board Training Device - using Trainer Control Device (TCD) for multi-ship scenarios.
T5/T6	Passive/Active AEGIS AN/SQS-53A Sonar Simulator
TEPEE	Tomahawk Engagement Planning Exercise Evaluator
EWOBT	S10H7 Electronic Warfare On Board Trainer (EWOBT)
USQ-T47	BFTT Electronic Warfare Trainer (BEWT)
EWTRAD	Electronic Warfare Training Readiness Assessment Device
MK92 SGP	MK 92 Scenario Generation Program (FPG 7 class)
NTCS-A RPT	Navy Tactical Communications System - Afloat Repeatable Performance Evaluation and Analysis Tool (tape recorder)
SQQ-91	Combat System Training System AN/SQQ-91 for LHD
SQQ-94	Combat System Training System AN/SQQ-94 for MCM

**COMNAVSURFLANT/PACINST 3502.2E**

20E19

NGFS Training Device

C-104. Feedback regarding training deficiencies associated with shipboard/embedded training devices will be reported using Navy Training Feedback System Form described in reference (b) (Form OPNAV 1500/39).

EXERCISES EQUIVALENCIES

EXERCISES	SHORE				SHIPBOARD SCENARIO GENERATOR												
	T A C D E W	E N W G S	2 0 4	2 0 5	R A V I R	A C T I V I T Y	E V E N T S	S C E N A R I O	T E M P O R A R Y								
<b>AMW</b>																	
AMW-1-SF NSFS REHEARSAL																X	
AMW-28-SF CONTROL SHIP/ SHORE MOVEMENT (DAY)	X	X															
AMW-5-I SACC AIR OPS	X																
AMW-18-I LOST PLANE/EMERG TANKING ASSIST	X																
AMW-20-I CONTROL ASSAULT HELO AND F/W A/C BY TACC	X																
<b>AAW</b>																	
AAW-2-SF LINK 11 OPS	X														X		
AAW-3-SF RADAR IFF TRACKING			X	X	X	X	X	X									
AAW-4-SF AA TGT DESIG AND ACQUISITION (N/F)			X	X		X	X										X
AAW-6-SF S/S AIR TGT DETECT TRACK, DESIG & ACQ			X	X		X	X										X
AAW-7-SF TACTICAL AAW	X		X	X	X	X	X										X
AAW-10-SF ASMD (N/F)	X		X	X		X	X										
AAW-14-SF BVP/ADT			X	X		X	X	X									
AAW-15-SF INFO PROCEDURES			X	X	X	X	X	X									
AAW-17-SF INTRUSION/JAMMING	X																
AAW-3-I AIC	X		X	X	X	X	X	X									
AAW-4-I LOST PLANE HOMING	X		X	X	X	X	X	X									

COMNAVSURFLANT/PACINST 3502.2E

EXERCISES EQUIVALANCIES

EXERCISES	SHORE				SHIPBOARD SCENARIO GENERATOR													
	T A C D E W	E N W G S	2 0 4	2 0 5	R A V I R	A C T S	E / R S S	V S	S Q 8 9 O B T	T 5 / T 6	T E P E	E W O / B E W T	E W / T R A / D R P T	N T C S 1 9	2 0 9	M K 2 S G P	T C D	
AAW-5-I AA TGT DESIG/ACQ IN MULTI TGT ENV - CAP COORD			X	X		X	X										X	
AAW-6-I ECCM MECH JAMMING			X	X		X	X											
AAW-7-I ECCM-CAP COORD IN MECH JAMMING			X	X		X	X											
AAW-8-I TAC AAW CAP/MSL COORD			X	X		X	X											
AAW-9-I TAC AAW CAP/MSL COORD WITN C/M			X	X		X	X											
AAW-10-I COORD CAP/MSL EMPL	X		X	X	X	X	X	X										
AAW-11-I COORD CAP/MSL EMPL IN ECM ENVIRONMENT			X	X		X	X											
AAW-13-I CINTEX	X		X	X	X	X	X	X										
AAW-14-I A/C CONTROL - ASM PLATFORM/ASM INCPT	X		X	X		X												
<b>C2W</b>																		
C2W-2-SF EXT EMCON									X			X	X	X				
C2W-12-SF LAMPS III (ALQ 142) U/W DEMO									X									
<b>CCC</b>																		
CCC-3-SF HELO ELVA CONTROL			X	X	X													
CCC-5-SF SYSCON SECURE VOICE SYS	X																	
CCC-6-SF RT DRILLS	X		X	X	X		X	X										
CCC-8-SF TTY CKT PROCEDURES	X																	
CCC-12-SF IMITATIVE DECEPTION & JAMMING	X																	

EXERCISES EQUIVALENCIES

EXERCISES	SHORE				SHIPBOARD SCENARIO GENERATOR												
	T A C D E W	E N W G S	2 0 4	2 0 5	R A V I R	A C T I V E S	E V E N T S	V E H I C L E S	S C E N A R I O	T E S T E R M I N A L							
CCC-21-SF SYSCON OPINTEL BCST/SI COMM-N SYS		X															
CCC-28-SF LINK II OPTEST (LONG LOOK)		X															
<b>SUW</b>																	
SUW-1-SF COMBINED AIR/SURF TRACKING	X		X	X	X	X	X	X									X
SUW-2-SF LONG RANGE PASSIVE TRACK & TARGETING			X	X													
SUW-10-SF OTH-T			X	X						X		X					
SUW-13-SF ATTACK/REATTACK EX FOR SSM SHIPS			X	X		X											
SUW-14-SF SAG LAMPS TACTICS	X			X								X					
SUW-20-SF CONV SURF TRACKING	X		X	X	X												X
SUW-1-I OTH SURV, SEARCH & DETECTION				X		X											
SUW-2-I SAG TACTICS W/FW A/C SUPPORT				X		X											
<b>USW</b>																	
ASW-3-SF BASIC CONTACT MGMT						X			X	X							
ASW-8-SF ACTIVE TRACKING									X								X
ASW-9-SF ACTIVE MULTI-MODE LONG RANGE						X			X	X							X
ASW-11-SF INIDENT CONTACT REPORTING				X		X		X	X	X							X
ASW-13-SF PASSIVE TRACKING SHORT RANGE						X			X	X							
ASW-14-SF ASW SEARCH						X			X	X							X

COMNAVSURFLANT/PACINST 3502.2E

EXERCISES EQUIVALANCIES

EXERCISES	SHORE					SHIPBOARD SCENARIO GENERATOR											
	T A C D E W	E N W G S	2 0 4	2 0 5	R A V I R	A C T S	E / R S S	V S	S Q 8 9 O B T	T 5 / T 6	T E P E	E W O / B E W T	E W / T R A / R P T	N T C S 1 9	2 0 E 1 9	M K 9 2 S G P	T C D
ASW-16-SF CLOSE RANGE ATTACKS (SIM)						X			X	X							X
ASW-17-SF ANTI-TORPEDO APPROACH	X							X	X								X
ASW-21-SF PASSIVE TRACKING	X					X			X	X							
ASW-22-SF ASW SCREEN			X	X	X	X		X	X	X							X
ASW-23-SF ASW A/C VECTACKS	X		X	X	X	X		X	X	X							
ASW-26-SF MULTI-SHIP PASSIVE TRACKING																	X
ASW-27-SF LONG RANGE PASSIVE TRACKING	X			X		X		X	X	X							X
ASW-28-SF CZBB OPS	X					X			X	X							X
ASW-29-SF INTERMEDIATE CONTACT MGMT						X			X	X							
ASW-31-SF CLOSE-IN SCREEN SURV FORCE			X	X	X	X		X	X	X							X
ASW-32-SF PERIMETER SCREEN SURF FORCE			X	X	X	X		X	X	X							X
ASW-33-SF BARRIER SEARCH/ DEFEND OBJ AREA			X	X	X	X		X	X	X							X
ASW-35-SF COORD ATTACK W/EVASION						X		X		X							X
ASW-38-SF CZ-EX PASSIVE BUOY	X					X		X	X	X							
ASW-41-SF LAMPS III HELO CONTROL						X											
ASW-42-SF SHIP F/W A/C CONTROL			X	X	X	X		X									X
ASW-43-SF LAMPS III/SHIP ATTACK						X											
ASW-44-SF CZ/BB SEARCH & ATTACK									X								

EXERCISES EQUIVALENCIES

EXERCISES	SHORE					SHIPBOARD SCENARIO GENERATOR											
	T A C D E W	E N W G S	2 0 4	2 0 5	R A V I R	A C T S	E / R S S	V S	S Q 8 9 O B T	T 5 / T 6	T E P E	E W O B T / B E W T	E W / T R A / R P T	N C S A / R P T	2 0 1 9	M 9 2 S G P	T C D
ASW-2-I COORD DATUMEX	X								X								X
ASW-4-I OPPOSED SORTIE																	X

## APPENDIX D

## FORMAL SCHOOL REQUIREMENTS

Ref: (a) OPNAVINST 1500.71

D-101. This appendix contains minimum school graduate requirements for ships, staffs, and units of the Surface Forces. Class "A" schools, training to support NEC/NOBC requirements in unit manpower documents, factory training, and approved billet specialty training (i.e. pipeline training) are not included. LPD 17 class requirements will be addressed at a later date.

a. This appendix does not restrict commanding officers from sending additional eligible personnel to any available course or expanding formal school training to other applicable schools.

b. It is recognized that limited TADTAR resources may not permit accomplishment of all training requirements listed herein. Commanding officers may request TADTAR augmentation to complete training requirements; however, in the event of TADTAR shortfalls, commanding officers must prioritize training based on individual ship needs within existing funding resources.

D-102. Appendix D arranges courses in the following format:

a. Course number, course title.

b. Applicability and required graduates. These columns list the minimum graduates for each type unit.

c. Notes. The notes contain amplifying information.

D-103. Detailed information concerning most courses listed herein can be found in the Catalog of Navy Training Courses (CANTRAC), NAVEDTRA 10500 which is distributed on CD-ROM. It may also be viewed on the the CNET home page at <http://www.cnet.navy.mil/netpdtc/cantrac/cantrac.htm>.

D-104. Recommendations for changes to this listing should be forwarded to COMNAVSURFLANT (N81) or COMNAVSURFPAC (N83), via the chain of command. School quotas may be requested in accordance with guidelines set forth in COMNAVSURFLANTINST 1320.1D/COMNAVSURFPACINST 1320.1D (TAD and School Quota Administration).

D-105. The Navy Training Feedback System will be used to identify, report and validate training deficiencies in accordance with reference (a). Training deficiencies that normally fall under this program include:

a. Individual has not been trained in skills required.

b. Individual has been trained in skills, but cannot perform them.

c. A training deficiency involving other broader issues.

D-106. The number of new C4ISR systems being placed aboard ships has created a unique training challenge. COMSPAWARSYSCOM and the Fleet CINC's have teamed up to meet this challenge by creating a website that is roadmap to C4ISR training. The website is titled "Integrated Battle Force Training" (IBFT)

a. The SPAWAR IBFT provides C4ISR school requirements for the watchstanding positions required to operate and maintain the new C4ISR systems on ships within 20 months of deployment. This matrix is provided because experience has shown that with the substantial growth in C4ISR installations prior to each deployment, ships are having difficulty determining what training is required to support the new system installations, where the training is located, who provides quotas, and when the training is scheduled. This website allows ship's to identify

## COMNAVSURFLANT/PACINST 3502.2D

their new C4ISR training requirements early in the inter-deployment training cycle. This will enable ships to begin planning as early as possible to complete all formal C4ISR training requirements. This site is also useful for ships outside the 20 month window, because it provides extensive information by ship type and systems regarding C4ISR training.

b. The web page is located at <http://c4iweb.spawar.navy.mil/04/ibft/>

**LEGEND:** 1, 2, 3, etc - Number of course graduates required.  
\* - Course applies to unit indicated. Refer to note on same page.

AMW COURSES-SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A O R S 5 0	C D G 4 7	D D G 9 6	D D G 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
K-2G-0037 AMPHIB WARFARE INDOC (5D)											3	3	3		3	3	3			
J-2G-0048 EXPEDITIONARY WARFARE STAFF PLANNING (5D)											3	3	3		3	3	3			
C-100-4176 AVIONICS CORROSION CONTROL (2D)											3	3								
J-113-0163 NSFS TM TRAINING/ MTT VISIT GWS MK34 (5D)							T M													
J-113-0167 BASIC NSFS TEAM TRAINING/MTT VST MK 86 (5D)					T M	T M														
J-221-0043 BOAT CONTROL/CIC TEAM TRAINING (5D)											T M	T M	T M		T M	T M	T M			
J-221-0319 AIR DIRECTION CONTROLLER (5D)		3							3	3	3	3	3		3	3				
C-222-2020 AMPHIB AIR TRAFFIC CONTROL CENTER TT <sup>1</sup> (12D)											T M	T M							T M	
D-555-0001 IMRL COLLATERAL DUTY MANAGER (3D)											1	1								
D-555-0007 AERO TECH PUB LIBRARY MGMT (5D)											1	1								
C-600-3177 ACFT NICAD BATTERY MAINTENANCE & REPAIR (5D)											1	1								
C-600-3180 CORROSION CONTROL BASIC (2D)											2	2								
C-604-2023 SHIPBOARD MOGAS <sup>2</sup> (2D)											2	2	2				2			
C-604-2027 ABH REFRESH (AMPHIB) <sup>3</sup> (5D)											*	*	*						*	

<sup>1</sup> LANT ONLY. ALL HDC/AOCC PERSONNEL SHOULD ATTEND AS A TEAM PRIOR TO BASIC PHASE.

<sup>2</sup> NOT REQUIRED IF SYSTEM HAS BEEN DEACTIVATED

<sup>3</sup> 50% OF ABH MANNING

COMNAVSURFLANT/PACINST 3502.2E

AMW COURSES - SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A R E 5 0	C G 4 7	D D 6 3	D D 9 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
C-821-2012 SHIPBOARD AVAIATION FUELS REFRESHER (10D) <sup>4</sup>											*	*	*							

<sup>4</sup> 70% PERSONNEL ASSIGNED TO THE AVIATION FUELS DIVISION.

COMNAVSURFLANT/PACINST 3502.2E

AW COURSES - SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A O R S 5 0	C D G 4 7 3	D D G 9 6 1	D D G 5 7	F G C 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
K-2G-0004 TACTICAL DATA SYSTEMS INTER-OPERABILITY (2D) <sup>1</sup>					X	X	X	X	X	X	X	X								
K-2G-0032 TACTICAL WARFARE OVERVIEW (5D)		1	1		3	3	3	3	2	2	3	3				3				
S-5A-0010 JMTAC (JOINT METEROLOGY AND TACTICS) (12D)	3								3	3	3	3								
K-221-0044 (5D) J-221-2301 (12D) AIC PROF MAINT <sup>2</sup>					3	1	3	2			3	3								
K-221-0102 MK23 TAS OPERATOR <sup>3</sup> (12D)		3	3		3						3	3								
K-221-0124 MULTI-LINK OPERATOR (12D)					4	4	4	4	4	4	4	4								4
J-221-0324 SHIP WARFARE COORD TACTICAL TRAINING <sup>4</sup> (19)					3	3	3													
S-221-4001 BATTLE GROUP MULTI TADIL TRAINING <sup>5</sup> (8D)					1 2	8 2	1 2	4			1 2	1 2								
T0025-9-01 FORCE AIR DEFENSE WARFARE COMMANDER <sup>6</sup> (5D)					T M		T M													

1 TAUGHT ON REQUEST FOR DEPLOYING BATTLE GROUPS  
 2 AS REQUIRED TO MAINTAIN PROFICIENCY DEFINED IN OPNAVINST 1211.2 (SERIES).  
 3 LHA EQUIPPED WITH AN/SWY-2 SYSTEM  
 4 THREE OFFICERS OR SENIOR ENLISTED  
 5 TAILORED TOWARDS SPECIFIC BATTLE GROUP.  
 6 TRAINING ARRANGED DIRECTLY WITH LOCAL AEGIS TRAINING AND READINESS CENTER DETACHMENT.

C2W COURSES-SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A O R S 5 0	C D G 4 7	D D 9 6 3	D D G 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
J-2G-0210 EWO SURFACE <sup>1</sup> (12D)	1	1	1		1	1	1	1	1	1	1	1	1		1	1	1	1	1	
K-2G-3003 C2W COMMANDER <sup>2</sup> (5D)					1	1					1	1								
J-221-0025 ENL TACTICAL APPLICATIONS <sup>3</sup> (12D)	3	2	2		8	8	3	3	4	4	3	4	4		4	1	2	2		
K-221-0176 SURFACE EW OPER JOURNEYMAN <sup>4</sup> (19)	*	*	*		*	*	*	*	*	*	*	*	*			*				
K-231-0106 BG CRYPTOLOGIC/INTEL TEAM TRAINING (5D) <sup>5</sup>					T M	T M	T M		T M	T M		T M								
K-231-0137 COBLU 0 (ADV) TEAM TRAINER (5D) <sup>6</sup>						T M														
K-231-0139 COMBAT DF TEAM TRAINING (5D) <sup>7</sup>							T M					T M								
K-231-0145 COBLU 0 (INT) TEAM TRAINER <sup>8</sup> (5D)						T M														
K-231-0156 CCWS SSEE PHASE II <sup>9</sup> (5D)					T M															

- 1 AN OFFICER, EWC, OR EW1 MAY ATTEND COI FOR EW EQUIPPED SHIPS.
- 2 PAC ONLY.
- 3 EW, CT, OS, AND IS SUPERVISOR
- 4 ALL EW'S WITH 1 YEAR SEA EXPERIENCE.
- 5 PACFLT ONLY. COURSE SCHEDULE VIA BG N2/CRC. THIS IS A BG PARTICIPATION COURSE WITH ALL CRYPTOLOGIC AND/OR INTEL PERSONNEL FROM BG CAPABLE UNITS. TEAM INCLUDES DIVO/LCPO AND CTR PERSONNEL. DIVO/LCPO PARTICIPATION IS MANDATORY. COMPLETION OF CRG TRAINING AND COBLU (OUTBOARD)(ADV), CCWS, OR COMBAT DF TEAM TRAINING (AS APPLICABLE) REQUIRED AS PREREQUISITES.
- 6 TEAM INCLUDES DIVO/LCPO AND CTR PERSONNEL. DIVO/LCPO ATTENDANCE/PARTICIPATION IS MANDATORY. SCEDULE WITH DEPLOYING CG47 CCSS TEAM TRAINER (K-231-0156). SUCCESSFUL COMPLETION OF CRG TRAINING AND INTERMEDIATE 7B4 TRAINING (K-231-0145) REQUIRED AS PREREQUISITES.
- 7 TEAM INCLUDES DIVO/LCPO AND CTR PERSONNEL. DIVO/LCOP ATTENDANCE IS MANDATORY. COMPLETION OF CRG TRAINING AND K-231-0180 REQUIRED AS PREREQUISITES. FOR DDG 51 CLASS, APPLIES TO HULLS 72 AND LATER.
- 8 TEAM INCLUDES DIVO/LCPO AND CTR PERSONNEL. DIVO/LCPO ATTENDANCE/PARTICIPATION IS MANDATORY. FOR DDG 51 CLASS: APPLIES TO HULLS 72 AND LATER.
- 9 TEAM INCLUDES DIVO/LCPO AND CTR PERSONNEL. DIVO/LCPO ATTENDANCE/PARTICIPATION IS MANDATORY. SCHEDULE WITH OUTBOARD TEAM TRAINER (K-231-

COMNAVSURFLANT/PACINST 3502.2E

C2W COURSES - SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A R E 5 0	C G 4 3	D D G 6 1	D D G 5 7	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1	
K-231-0180 SUPPLEMENTAL CRYPTOLOGIC TEAM TRAINING (5D) <sup>10</sup>					T M	T M	T M					T M									
K-231-1000 BASIC CRYPTOLOGIC AFLOAT TRNG (BCAT) <sup>11</sup> (5D)					T M	T M	T M		T M	T M	T M	T M	T M								
K-231-1001 INT CRYPTOLOGIC AFLOAT TRNG (ICAT) <sup>12</sup> (10D)					T M	T M	T M		T M	T M	T M	T M	T M								
K-231-1002 NON-MORSE CRYPTOLOGIC AFLOAT TRNG (NCAT) <sup>13</sup> (5D)					T M	T M	T M					T M									
A-233-0005 EW THREAT RECOGNITION <sup>14</sup> (12D)	*	*	*		*	*	*	*	*	*	*	*	*		*	*					*
K-233-0211 EW MODULE MGR <sup>15</sup> (5D)	3	2	2		3	2	3	2		2	2	2	2		1	2					
K-260-1000 CRYPTOLOGIC COMM AFLOAT TRAINING (CCAT) <sup>16</sup> (3D)					T M	T M	T M		T M	T M	T M	T M	T M								
(NO COURSE NR) KLIEGLIGHT (KL) REPORTING <sup>17</sup> (1D)					*	*	*		*	*		*									
(NO COURSE NR) STANDARD REPORT USING MODULE (STRUM) <sup>18</sup> (1D)					2	2	2		2	2		2									

0145). SUCCESSFUL COMPLETION OF CRG TRAINING AND (K-231-0180) REQUIRED AS PREREQUISITES. REQUIRED WITHIN 90 DAYS OF DEPLOYMENT.

<sup>10</sup> TEAM INCLUDES DIVO/LCPO AND CTR PERSONNEL. FOR DDG 51 CLASS: APPLIES TO HULLS 72 AND LATER.

<sup>11</sup> TEAM INCLUDES DIVO/LCPO AND CTR PERSONNEL. DIVO/LCPO ATTENDANCE/PARTICIPATION IS MANDATORY. FOR DDG 51 CLASS: APPLIES TO HULLS 72 AND LATER.

<sup>12</sup> TEAM INCLUDES DIVO/LCPO AND CTR PERSONNEL. DIVO/LCPO ATTENDANCE/PARTICIPATION IS MANDATORY. FOR DDG 51 CLASS: APPLIES TO HULLS 72 AND LATER.

<sup>13</sup> TEAM INCLUDES DIVO/LCPO AND CTR PERSONNEL. DIVO/LCPO ATTENDANCE/PARTICIPATION IS MANDATORY. FOR DDG 51 CLASS: APPLIES TO HULLS 72 AND LATER.

<sup>14</sup> ALL STUDENTS MUST HAVE COMPLETED EW CLASS "A" SCHOOL OR MET THE REQUIREMENT FOR CHANGE-OF-RATE SET FORTH IN BUPERS INST 1430.16 (SERIES) WITH A MINIMUM OF THREE MONTHS OPERATIONAL EXPERIENCE IN AN EW BILLET. \* ALL EW'S (E3-E6) ONCE PER SEA TOUR.

<sup>15</sup> ALL EW WATCH SUPERVISORS (E4 AND ABOVE) ON EW EQUIPPED SHIPS.

<sup>16</sup> DIVO/LCPO ATTENDANCE/PARTICIPATION IS MANDATORY. FOR ALL CTO ASSIGNED TO SHIPS WITH PERMANENT SSES. FOR DDG 51 CLASS: APPLIES TO HULLS 72 AND LATER.

<sup>17</sup> CTR SCHEDULE THROUGH CRYPTOLOGIC RESOURCE GROUP (CRG), NSGA NORTHWEST.

C2W COURSES-SHIPS

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<sup>18</sup> CTR SCHEDULE THROUGH CRYPTOLOGIC RESOURCE GROUP (CRG), NSGA NORTHWEST.

CCC COURSES-SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A R E 5 0	C G 4 7	D D 9 6 3	D D 9 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 7	L S D 6	L S D 1	L S T	M C M	M C S	M H C 5 1
J-2G-0966 NAVY OPSEC STAFF PLANNER (2D) <sup>1</sup>	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
J-2G-2302 JMCIS AFLOAT MGR <sup>2</sup> (5D)	3	3	3		9	9	9	9	6	6	6	6	6		6	6		2	6	2
V-4C-0013 EKMS MANAGER <sup>3</sup> (12D)	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2
A-260-0050 OTCIXS/TADIIXS OPERATOR (5D)	3				3	3	3	3	3	3	3	3	3					2	3	2
A-260-0066 EHF SATCOM TERM OPER (12D) <sup>4</sup>	3				3	3	3		3	3	3	3								
A-670-0063 FIBER OPTIC MAINT TECHNICIAN <sup>5</sup> (5D)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
(NO CSE NR) (FTSC) EMI AWARENESS (1D) <sup>6</sup>	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1

<sup>1</sup> TRAINING WILL BE INCLUDED IN DEPARTMENT HEAD CURRICULUM AND WILL FULFILL THIS REQUIREMENT.

<sup>2</sup> TRAINING WILL BE INCLUDED IN DEPARTMENT HEAD CURRICULUM AND WILL FULFILL THIS REQUIREMENT. ON SHIPS WITH NTCS-A FOR TAO, CICWO, ASUWC WATCH OFFICER, FOTC, AND E-6/E-5 WHO DID NOT ATTEND CICWO COURSE.

<sup>3</sup> REPLACES CMS CUSTODIAN (A-4C-0014). PER ALCOM 005/97, REQUIRED FOR CUSTODIAN AND PRIMARY ALTERNATE.

<sup>4</sup> SINGLE SITED SAN DIEGO. REQUIREMENT CAN BE MET BY GRADUATES OF A-260-0253 TRANSMISSION SYS TECH (RM-2379)

<sup>5</sup> IF FIBER OPTIC SYSTEM INSTALLED.

<sup>6</sup> REQUIRED FOR ALL SESS DIVO/LCPO/CTM. STEP COURSE EMI CONTROL (A-198-0001) SATISFIES THIS REQUIREMENT. SEE ANNEX D.

COMNAVSURFLANT/PACINST 3502.2E

FSO COURSES - SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A O R S 5 0	C D G 4 7	D D G 9 6 3	D D G 5 1	F G G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
A-4J-0021 ENVIRONMENTAL PROT COORD AFLOAT <sup>1</sup> (3D)	1			1	1	1	1	1	1	1			1		1	1	1	1	1	1
A-4J-0082 (2D) RESPIRATORY PROTECTION OFFICER <sup>2</sup> (2D)	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
A-8B-0008 AFLOAT HAZMAT COORD <sup>3</sup> (2D)	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
B-300-1000 SURFACE FORCE MEDICAL INDOC (5D)	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
B-322-1075 (EPMU) SHIPBOARD PEST MGMT <sup>4</sup> (2D)	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2
B-322-2101/2102 (EPMU) FOOD SVC SANITATION CERT/RECERT <sup>5</sup> (4D/3D)	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2
B-322-2130 (EPMU) HEALTH ASPECTS OF MARINE SANITATION DEV <sup>6</sup> (1D)	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2
B-322-2209 (EPMU) MALARIA PREVENTION AND CONTROL <sup>7</sup> (1D)	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
B-322-2210 (EPMU) LABORATORY ID OF MALARIA <sup>8</sup> (1D)	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
B-322-2310 (EPMU) HEARING CONSERVATION AFLOAT <sup>9</sup> (1D)	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1

1 TRAINING INCLUDED IN DEPARTMENT HEAD AND PXO CURRICULUM WILL FULFILL THIS REQUIREMENT.

2 PER ART B0602 PARA (2), OPNAVINST 5100.19C. FOR DESIGNATED RPO. AVAIL BY PERIODIC MTT FROM NAVOSHENVTRACEN NORFOLK VA. AOE, LHA, LHD AND LPH CLASS SHIPS USE COI A-493-0072 INSTEAD.

3 TRAINING INCLUDED IN DEPARTMENT HEAD AND PXO CURRICULUM WILL FULFILL THIS REQUIREMENT.

4 LEADING HM AND ONE MS - ANNUAL RECERT REQUIRED FOR MED DEPT PERSONNEL.

5 MS OR LEADING HM - NAVMED P5010 REFERS. CERT/RECERT EVERY 3 YEARS. COI ALSO AVAIL FROM NAVHOSP YOKOSUKA.

6 HM AND HT - NAVMED P5010 REFERS. COI ALSO AVAIL FROM NAVHOSP YOKOSUKA.

7 IAW TYCOM PREDEPLOYMENT REQUIREMENTS (WESTPAC/IO). SHOULD BE TAKEN ICW B-322-2210

8 IAW TYCOM PREDEPLOYMENT REQUIREMENTS (WESTPAC/IO). SHOULD BE TAKEN ICW B-322-2209

9 COI NOT OFFERED BY EPMU-5 IN SAN DIEGO. EPMU 5 WILL PROVIDE "TRAIN-THE-TRAINER" ASSISTANCE TO SAN DIEGO BASED SHIPS IN LIEU OF COI.

FSO COURSES-SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A O R S 5 0	C G 4 7	D D 9 6 3	D D 5 7	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 7	L S D 6	L S D 1	L S T	M C M	M C S	M H C 5 1
B-322-2320 (EPMU) HEAT STRESS AFLOAT <sup>10</sup> (1D)	4	4	4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4	4
A-493-0072 RESPIRATORY PROTECTION PROGRAM MANAGEMENT (5D)		1	1								1	1								
A-760-2166 SHIPBOARD ASBESTOS EMERG RESPONSE <sup>11</sup> (2D)	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*
(NO COURSE NR) CARDIO-PULMONARY INSTRUCTOR TRAINING <sup>12</sup>	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1

<sup>10</sup> THREE ENGINEERING PERSONNEL AND ONE MEDICAL. COI ALSO AVAIL FROM NAVHOSP YOKOSUKA. COI NOT OFFERED BY EPMU-5 IN SAN DIEGO. EPMU 5 WILL PROVIDE "TRAIN-THE-TRAINER" ASSISTANCE TO SAN DIEGO BASED SHIPS IN LIEU OF COI.

<sup>11</sup> THREE PERSON TEAM REQUIRED FOR SHIPS NOT DECLARED ASBESTOS FREE.

<sup>12</sup> EACH SHIP SHALL HAVE A CERTIFIED CPR INSTRUCTOR ONBOARD IAW OPNAVINST 5100.19C ART B0705.C. BI-ANNUALLY, ALL MEDICAL DEPARTMENT PERSONNEL, GAS FREE ENGINEERS, SURFACE RESCUE SWIMMERS, STRETCHER BEARERS AND 50% OF ALL ELECTRICAL/ELECTRONICS ASSOCIATED RATING WILL RECEIVE CPR TRAINING.

COMNAVSURFLANT/PACINST 3502.2D CH-1

INT COURSES - SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A R E 5 0	C G 4 7	D D 9 6 3	D D G 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1	
J-3A-1951 AFLOAT INTEL SYS MANAGER OVERVIEW <sup>1</sup> (5D)					1	1	1		2	2	1	2									
J-3A-0952 BATTLE GROUP INTEL REFRESHER (5D) <sup>2</sup>					1	1	1		1	1	1	1									
K-3A-5034 BASIC SHIPBOARD INTEL <sup>3</sup> (12D)	*	*	*	*	*	*	*	*					*		*	*	*	*	*	*	*
J-150-2957 GCCS-M INTEL CTR MGR (12D)									2	2	1	2									
J-150-2966 EXPEDITIONARY WARFARE INTEL (EWIC) <sup>4</sup> (17D)									1	1	1	1	1								
J-243-0974 INTEL PHOTO (5D)	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2	2
K-243-0975 FLEET IMAGERY REFRESHER (5D)									1	1	1	1									
S-243-5045 (5D) JDISS BASIC OPERATOR <sup>5</sup>									6	6	4	6	1								
(NO COURSE NR) DIA COURSE IDBR (IDB- RETRIEVAL) <sup>6</sup>									3	3	2	3	1								
(NO COURSE NR) JDISS TACTICAL TROUBLE SHOOTING <sup>7</sup>									3	3	2	3	1								
(NO COURSE NR) PACIFIC THEATER INTEL ARCH COI <sup>8</sup>									*	*	*	*	*								

<sup>1</sup> REQUIRED FOR ALL ASSIGNED INTEL (1630) OFFICERS AND IS-3905 PERSONNEL.

<sup>2</sup> REQUIRED FOR ALL ASSIGNED INTEL (1630) OFFICERS AND IS-3905 PERSONNEL.

<sup>3</sup> SHIPBOARD COLLATERAL DUTY INTEL OFFICER PLUS ONE ENLISTED PER U/W WATCH SECTION (REQUIREMENT REDUCED BY ONE IF IS-3905 IS ASSIGNED TO SHIP), AND CRYPTO OFFICER FOR SHIPS WITH CT PERSONNEL ASSIGNED. COI IS AVAILABLE AS MTT.

<sup>4</sup> REQUIRED FOR ALL INTEL OFFICERS (1630) AND IS WATCH SUPS. NOT REQUIRED FOR PACFLT LPD-4.

<sup>5</sup> AN ADEQUATE NUMBER OF PERSONNEL SHALL RECEIVE THIS TRAINING IN ORDER TO SUPPORT ALL WATCH STATIONS. NOT REQUIRED FOR PACFLT LPD-4.

<sup>6</sup> PACFLT ONLY: AN ADEQUATE NUMBER OF PERSONNEL SHALL RECEIVE THIS TRAINING IN ORDER TO SUPPORT ALL WATCH STATIONS. NOT REQUIRED FOR PACFLT LPD-4.

<sup>7</sup> AN ADEQUATE NUMBER OF PERSONNEL SHALL RECEIVE THIS TRAINING IN ORDER TO SUPPORT ALL WATCH STATIONS. NOT REQUIRED FOR PACFLT LPD-4.

INT COURSES-SHIPS

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<sup>8</sup> PACFLT ONLY: REQUIRED FOR ALL INTEL (1630) OFFICERS ASSIGNED. COURSE IS AVAILABLE ON LINE AT [www.jitap.pacom.smil.mil/online/jitapolt.htm](http://www.jitap.pacom.smil.mil/online/jitapolt.htm).

LOG COURSES-SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A R E 5 0	C G 4 7	D D 6 3	D D 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 7	L S D 6	L S D 1	L S T	M C M	M C S	M H C 5 1
J-060-0025 STREAM OPERATOR (12D)		3 6	3 6																	
J-690-0077 FUEL PROBE AND CARGO DROP REEL MAINTENANCE (3D)		4	4																	
G-690-0068 FORKLIFT TRUCK OPERATOR <sup>1</sup> (3D)		*	*						*	*	*	*	*		*	*	*			

<sup>1</sup> 1 PER FORKLIFT. G-690-0068 COI IS SINGLE SITED AT WILLIAMSBURG, VA. PAC SHIPS SHOULD ARRANGE FORKLIFT OPERATOR TRAINING WITH THE NEAREST PWC OR NSY PUGET SOUND FOR PNW AREA.

COMNAVSURFLANT/PACINST 3502.2E

MIW COURSES - SHIPS

COURSE INFORMATION	A G F	A O E	A O E	A R S	C G 4	D D 9	D D 5	F G 7	J C C	L C C	L H A	L H D	L P D	L P D	L S D	L S D	L S T	M C M	M C S	M H C	
		1	6	5	7	6	3	1					4	1	3	4	1			5	1
A-130-2567 OK- 520/SQQ COMMON WINCH (5D)																		2		2	
A-130-0938 AN/WQN-1 OPS/MAINT (5D)																		1			
A-647-0922 AN/SLQ-48 MNS HANDLING (12D)																		3		2	
A-647-0930 AN/SLQ-48 MNS OPERATOR (10)																		4		2	

MOB-D COURSES-SHIPS

COURSE INFORMATION	A G F	A O 1	A O 6	A O 5	C R G 4	D D 9	D D 6	F G 5	J C 7	L C C	L H A	L H D	L P D	L P D	L S D	L S D	L S T	M C M	M C S	M C H	
A-4G-0020 DCA (47D)	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1
K-495-0040 REPAIR PARTY LEADER <sup>1</sup> (12D)	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*
K-495-0045 SHIPBOARD DC TRAINING <sup>2</sup> (2D)	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*
K-495-0051 GAS FREE ENGINEER <sup>3</sup> (5D)	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*
J-495-0412 GENERAL FIRE FIGHTING <sup>4</sup> (1D)	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*
J-495-0413 AIRCRAFT FIRE FIGHTING <sup>5</sup> (1D)											*	*								*	
J-495-0414 HELO FIRE FIGHTING TEAM TRAINING <sup>6</sup> (1D)	*	*	*	*	*	*	*	*	*	*			*		*	*	*				
A-495-0416 GENERAL FIRE FIGHTING WITH SCBA (1D) <sup>7</sup>							*					*				*					
J-495-0418 FIRE FIGHTING TEAM TRAINING <sup>8</sup> (1D)	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*			*	

<sup>1</sup> ALL DAMAGE CONTROL REPAIR STATION (DCRS) OFFICERS AND REPAIR STATION LEADERS. k-495-0419 IS A PREREQUISITE. SUBSTITUTE COURSES: A-4G-0020 AND A-495-2055.

<sup>2</sup> ALL DCRS TEAMS AND INPORT EMERGENCY TEAMS. K-495-0046 (DAMAGE CONTROL TEAM TRAINING) IS AN ACCEPTABLE SUBSTITUTE.

<sup>3</sup> GAS FREE ENGINEER, GAS FREE ENGINEER ASSISTANT, AND ONE GAS FREE PETTY OFFICER FOR EACH INPORT DUTY SECTION. A-4G-0020, A-495-2055 ARE AUTHORIZED SUBSTITUTES. SUBMARINE GAS FREE ENGINEER (B-322-2115) IS ALSO AN ACCEPTABLE SUBSTITUTE.

<sup>4</sup> ALL PERSONNEL. LIVE FIREFIGHTING IS REQUIRED EVERY 6 YEARS; ATTENDANCE AT COURSES J-495-0413/0414/0418 AND 0419 SATISFIES THE REQUIREMENT AND IS STRONGLY RECOMMENDED OVER REPEATING J-495-0412. SCBA EQUIPPED SHIPS SHOULD USE COURSE A-495-0416 INSTEAD OF THIS COURSE. COURSE A-495-2071 IS AN AUTHORIZED SUBSTITUTE FOR SHIPS STATIONED IN PACNORWEST.

<sup>5</sup> REQUIRED FOR FLIGHT DECK PERSONNEL, PILOTS, AIRCREW, AND PERSONNEL RECEIVING HAZARDOUS DUTY PAY ON LHA, LHD, LPH, AND MCS ONLY, WITHIN 6 MONTHS OF INITIAL ASSIGNMENT TO SHIP AND EVERY 4 YEARS THEREAFTER. GRADUATES OF J-495-0412 AND ACCESSION FIRE FIGHTING (WITHIN ONE YEAR) ARE NOT REQUIRED TO ATTEND J-495-0413.

<sup>6</sup> ALL HELO TEAMS ON LPD AND SMALLER. REPEAT EVERY 24 MONTHS OR AT 40% OR GREATER TEAM PERSONNEL TURNOVER.

<sup>7</sup> THIS COURSE SHOULD BE USED IN LIEU OF J-495-0412 FOR SCBA EQUIPPED SHIPS.

<sup>8</sup> ALL DC REPAIR STATION TEAMS AND INPORT EMERGENCY TEAMS REPEAT ONCE PER IDTC (NOT MORE THAN 24 MONTHS BETWEEN COURSES).

COMNAVSURFLANT/PACINST 3502.2E

MOB-D COURSES - SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A R E 5 0	C G 4 7	D D 6 3	D D 9 1	F G 5 7	J C C	L C C	L H A	L H D	L P D 4	L P D 7	L S D 6	L S D 1	L S T	M C M	M C S	M H C 5 1	
J-495-0419 ADVANCED FIRE FIGHTING <sup>9</sup> (4D)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
K-495-2179 FOAM GENERATING SYSTEM (5D)	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1

<sup>9</sup> ALL SCENE LEADERS AND ALL REPAIR PARTY LEADERS. PREREQUISITE FOR REPAIR PARTY COI.

MOB-E COURSES-SHIPS

COURSE INFORMATION	A G F	A O 1	A O 6	A O 5	C 4	D 9	D 6	D 5	F 7	J C C	L C C	L H A	L H D	L P D	L P D	L S D	L S D	L S T	M C M	M C S	M H C
	3	3								3	3	3	3	3		3				3	
A-651-0019 BOILER WATER/ FEEDWATER TEST AND TREATMENT (BASIC) <sup>1</sup> (5D)																					
A-651-0115 BOILER WATER/ FEEDWATER TEST AND TREATMENT SUP (5D) <sup>2</sup>	7	7								7	7	7	7	7		7					7
J-651-0457 AUX BOILERS (5D) <sup>3</sup>			3														3	3			
J-651-0468 NAVY BULK PETROLEUM (2D) <sup>4</sup>		1	1																		
K-652-0082 VACUUM COLL AND HOLDING SEWAGE TREATMENT PLANTS (5D)						3	3														
A-652-0172 FFG7 AUX ELECT SUBSYSTEMS (26D)									2												
A-652-0215 FFG7 AUX ELECT SYS (33D)									2												
A-652-0221 NON-PROP BW TEST AND TREATMENT <sup>5</sup> (4D)			7	4	7	7											6	6			
A-652-0500 SHIPBOARD GUAGE CAL 600# (5D)	2	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2
A-652-0241 AIR COOLED 60/400HZ STATIC FREQ CONVERTER MAINT <sup>6</sup> (19D)						2		2									2				
K-652-2196 OIL POLLUTION ABATEMENT EQUIP O&M (3D)	2	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2
K-821-2142 PROP FUELS AND OILS AND JP5 SYS TESTING <sup>7</sup> (4D)	3	3	3	3	3	3	3	3	3	3	3	3	3	3		3	3	3	3	3	3

1 OIL LAB PERSONNEL  
 2 ENG OFF/MPA/EOOWS/BOILER OFF/OIL KING. SWOS DEPT HEAD COI SATISFIES THIS REQUIREMENT.  
 3 SHIPS WITH V2M WATERTUBE AUX BOILER.  
 4 LANTFLT AO/AOE ONLY.  
 5 ENG OFF/MPA/EOOWS/OIL KING/OIL LAB PERSONNEL.  
 6 EM/IC/ET/EW  
 7 INCLUDES MATERIAL FROM CANCELLED COI K-821-2039/J-651-0466 (JP-5 AVIATION FUEL SYSTEM)



COMNAVSURFLANT/PACINST 3502.2E

MOB-N COURSES - SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A R E 5 0	C G 4 7	D D 6 3	D D 9 1	D G 5 7	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 7	L S D 6	L S D 1	L S T	M C M	M C S	M H C 5 1
K-2G-0603 CELESTIAL NAV REFRESHER <sup>1</sup> (5D)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
K-2G-2207 NAV/SENIOR QM REFRESHER <sup>2</sup> (12D)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
J-221-0344 RADAR NAVIGATION TEAM TRAINING REFRESHER <sup>3</sup> (3D)	T M	T M	T M	T M	T M	T M	T M	T M	T M	T M	T M	T M	T M	T M	T M	T M	T M	T M	T M	T M	T M

<sup>1</sup> NAVIGATOR AND SENIOR QUARTERMASTER TO ATTEND.

<sup>2</sup> NAVIGATOR AND SENIOR QUARTERMASTER TO ATTEND.

<sup>3</sup> EACH SHIP'S CIC/CDC RADAR NAV AND BRIDGE TEAM IS REQUIRED TO COMPLETE IAW CNSL/CNSP/CNAP/CNALINST 3540.4A (NAVDORM)

MOB-S COURSES-SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A R E 5 0	C G 4 7	D D 9 6 3	D D 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 7	L S D 1	L S D 3	L S D 4	L S T	M C M	M C S	M H C 5 1
E-2G-2002 SURFACE SAR OFFICER (5D) <sup>1</sup>	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1
K-060-2119 DOCKSIDE UNREP SIMULATOR <sup>2</sup> (2D)	X				X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
K-060-2136 SURFACE RESCUE TEAM TRAINING AND EVALUATION <sup>3</sup> (1D)	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
K-060-2220 2ND CLASS SWIMMER TEST <sup>4</sup> (1D)	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
K-062-0625 RIB COXSWAIN <sup>5</sup> (5D)	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*
K-062-0634 BASIC BOAT COXSWAIN <sup>6</sup> (5D)	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*
K-221-2155 FUNDAMENTALS OF SAR (5D)	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2	2
J-822-0039 BOATSWAIN MATE SUPERVISOR (10)	4	4	4	2	2	2	2	2	2	2	2	4	4		4	4	4	4	4	1	1
(NO COURSE NR) (FTC/ATG) SRS SAR PROFICIENCY TRAINING <sup>7</sup>	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2	2

<sup>1</sup> PAC ONLY. EXPORTABLE TO JAPAN ANNUALLY. HC-3 IS QUOTA CONTROL (619) 545-5404

<sup>2</sup> DRY HOOKUPS COUNT AS EQUIVALENCY

<sup>3</sup> PAC ONLY - DECK BOAT RECOVERY TEAM IAW OPNAVINST 3130.6A AND NWP 3-50.1 SHOULD BE ACCOMPLISHED DURING BASIC PHASE BUT NOT TO EXCEED 24 MONTHS.

<sup>4</sup> ALL BOAT CREW MEMBERS IAW MILPERSMAN 6610120. K-130-2138 CAN ALSO BE USED FOR CERTIFICATION.

<sup>5</sup> TWO PER CRAFT

<sup>6</sup> TWO PER CRAFT

<sup>7</sup> TWO HOURS EACH QUARTER OF IN-WATER TRAINING IS THE MINIMUM PROFICIENCY REQUIREMENT IAW OPNAVINST 3130.6 SERIES.

COMNAVSURFLANT/PACINST 3502.2E

NCO COURSES - SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A O R S 5 0	C D G 4 7	D D 9 6 3	D D 5 7	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M C H 5 1
D-2G-0200 HELO CONTROL OFFICER (5D)	1	1	1	1	1	1	1	1	1	1					1	1	1		1	
A-4H-0002 JOINT FLEET QA OFFICER/ SUPV <sup>1</sup> (3D)	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2
A-4J-0020 AFLOAT SAFETY OFFICER <sup>2</sup> (12D)	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
S-5F-0014 LEGAL OFFICER <sup>3</sup> (30D)	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
A-8B-0045 SUPPLY INDOCTRINATION FOR LINE OFFICERS (33D)				1														1		1
K-041-2048 MAG SPRINKLER OPS/REP (4D)	2	4	4		3	3	3	3	2	2	2	2	2		2	2	2	1	2	1
A-050-0001 COMMAND TRAINING TEAM INDOCTRINATION (4D)	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2
K-070-9045 SHIPBOARD SECURITY ORIENTATION <sup>4</sup> (5D)	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2
A-100-0076 AN/USM-646 TEST MEASUREMENT AND DIOGNOSTIC OPS/MAINT <sup>5</sup> (5D)	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*
A-198-0056 FIELD CALIBRATION ACTIVITY MAINTENANCE <sup>6</sup> (18D)	2		2		2	2	2		2	2	2	2	2		2	2	2		2	
A-493-2099 SAFETY PROGRAMS AFLOAT <sup>7</sup> (5D)	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*
P-500-0020 PO1 LEADERSHIP <sup>8</sup> (12D)	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*
P-500-0021 CPO LEADERSHIP <sup>9</sup> (12D)	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*

- 1 EQUIVALENT IS SUBMARINE QA OFF/SUPV 1A-4H-0146
- 2 TRAINING INCLUDED IN DEPARTMENT HEAD CURRICULUM WILL FULFILL THIS REQUIREMENT.
- 3 NOT REQUIRED IF JAG OFFICER ASSIGNED (DESIG 2500)
- 4 COMMAND PHYSICAL SECURITY OFFICER MUST ATTEND. AVAIL THRU VTT AND MTT.
- 5 2 GRADS PER STATION
- 6 EITHER 2 COI GRAD AND / OR NEC ET-1589 ON BOARD SATISFIES REQUIREMENT.
- 7 ALL DESIGNATED DIVISION SAFETY PETTY OFFICERS SHALL RECEIVE THIS TRAINING. FOR PAC SHIPS, COI OFFERED VIA VTT AT SDIEGO, BANGOR, PHBR, AND EVERETT.
- 8 ALL E-6 MUST COMPLETE PRIOR TO ADVANCEMENT TO E-7. THIS COI REPLACES P-500-0034

NCO COURSES-SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A O R S 0	C D G 4 7	D D G 9 6	D D G 5 3	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
P-500-0025 PO2 LEADERSHIP <sup>10</sup> (12D)	*	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	*	*
P-501-0060 DAPA (5D)	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	1
A-542-0013 DK TRAVEL <sup>11</sup> (12D)	2	2	2		2	2	2	2		2	2	2	2		2	2	2		2	
A-542-0014 DK FISCAL PROCESSES <sup>12</sup> (12)	2	2	2		2	2	2	2		2	2	2	2		2	2	2		2	
A-557-0001 JOINT FLEET QA INSPECTOR <sup>13</sup> (5D)	6	6	6	2	2	2	2	2		6	1 2	1 2	8		6	4	2	2	1 2	2
D-600-0506 LANDING SIGNALMAN ENLISTED (5D)	2	2	2		2	2	2	2		2	1 2	1 2	4		2	4	2		2	
A-800-0027 FS MGMT AUTOMATED RECORDS KEEPER (11D)	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	1
J-830-0010 ANTI-TERRORISM TRAINING OFFICER <sup>14</sup> (2D)	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	1
J-830-0015 FORCE PROTECTION OFFICER <sup>15</sup> (5D)	2	2	2	2	2	2	2	2		2	2	2	2		2	2	2	2	2	2
A-830-0020 VBSS/MIO PROCEDURES <sup>16</sup> (5D)					2 T M	2 T M	2 T M	2 T M												
K-830-2213 SHIP SECURITY ENGAGEMENT TACTICS (5D)	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2		1 2	1 2	1 2	1 2		1 2	1 2	1 2	1 2	1 2	1 2
K-830-2223 SHIP SECURITY ENGAGEMENT WEAPONS (5D)	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2		1 2	1 2	1 2	1 2		1 2	1 2	1 2	1 2	1 2	1 2
A-831-0003 BRIG STAFF AFLOAT <sup>17</sup> (12D)											*	*								

<sup>9</sup> ALL E-7 MUST COMPLETE PRIOR TO ADVANCEMENT TO E-8. THIS COI REPLACES P-500-0036

<sup>10</sup> ALL E-5 MUST COMPLETE PRIOR TO ADVANCEMENT TO E-6.

<sup>11</sup> COMPLETION COI A-542-0015 SATISFIES THIS REQUIREMENT.

<sup>12</sup> COMPLETION COI A-542-0015 SATISFIES THIS REQUIREMENT.

<sup>13</sup> EQUIVALENT IS SUBMARINE QA INSPECTOR (A-4H-0146)

<sup>14</sup> NOT REQUIRED IF TWO GRADUATES OF FPO COI (K-830-0015) ARE ON BOARD. THIS COI IS THE FIRST 2 DAYS OF THE FPO COI.

<sup>15</sup> FORCE PROTECTION OFFICER MUST ATTEND. SECOND GRADUATE IS DESIREABLE, BUT ATTO COI (J-830-0010) GRAD MAY SUBSTITUTE.

<sup>16</sup> TYCOM WILL EXERCISE QUOTA CONTROL BASED ON DEPLOYMENT REQUIREMENTS. SEE CANTRAC FOR PHYSICAL CONDITION REQUIREMENTS

COMNAVSURFLANT/PACINST 3502.2E

NCO COURSES - SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A R S 5 0	C G 4 7	D D 9 6 3	D D 5 7	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 7	L S D 1	L S D 3	L S D 4	L S T	M C M	M C S	M H C 5 1	
(NO COURSE NR) ADAMS MANAGER/SUP <sup>18</sup>	*	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	*	*	*	*
(NO COURSE NR) COSAL/USE/MAINT LOCAL ILO SITE	2 0	2 0	2 0	6 0	2 0	2 0	2 0	1 0		2 0	2 0	2 0	2 0		1 5	1 5	1 5	1 5	6 0	2 0	6 0	
(NO COURSE NR) PREVENT <sup>19</sup>	*	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	*	*	*	*
(NO COURSE NR) SHIPBOARD TRAINING TEAM (SBTT) (4D) <sup>20</sup>	*	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	*	*	*	*
(NO COURSE NR) STANDARDIZATION OF SHIPBOARD REPO COPY EQUIP MAINT TECH TRAINING <sup>21</sup>	*	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	*	*	*	*
(NO COURSE NR) TYCOM PCO/PXO AVIATION BRIEF (1D)	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2		2		

<sup>17</sup> SEE OPNAVINST 1640.8 TO DETERMINE NUMBER OF GRADUATES. NUMBER VARIES DEPENDING ON NUMBER OF NEC 9575 ASSIGNED.

<sup>18</sup> CO/XO/CMC ATTEND MANAGER COURSE. E-7 AND ABOVE ATTEND SUPERVISOR.

<sup>19</sup> REF OPNAVINST 5350.4B. 10% OF CREW MUST ATTEND, NOT TO INCLUDE CREW MEMBERS ATTENDING DUE TO ALCOHOL INCIDENT.

<sup>20</sup> TO BE CONDUCTED 6 -12 WEEKS PRIOR TO CART II BY ITT LEADER, TEAM LEADERS AND TEAM MEMBERS. INSTRUCTION PROVIDED/SCHEDULED BY ATG.

<sup>21</sup> 1 PER EQUIPMENT TYPE IAW SSRE COMMERCIAL SUPPORT CONTRACT.

SUW COURSES-SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A R E 5 0	C G 4 7	D D 9 6 3	D D 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 7	L S D 1 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
J-041-0103 AMMO ADMIN (5D)	1	5	5	1	2	2	2	2	1	1	2	2	2		2	2	2	1	2	1
J-041-0145 .50 CAL OPS/MAINT <sup>1</sup> (4D)	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*
K-041-2236 MK38 25MM MG OPS/MAINT <sup>2</sup> (10D)	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*
J-113-0133 HARPOON CANISTER HANDLING (1D)					T M	T M	T M													
J-121-0524 TOMAHAWK WATCH OFFICER <sup>3</sup> (19D)					3	3	3													

<sup>1</sup> TWO GRADUATES PER MOUNT FOR UNITS EQUIPPED.

<sup>2</sup> TWO GRADUATES PER MOUNT FOR UNITS EQUIPPED. (GUNS MAY BE PERMANENTLY INSTALLED OR SCHEDULED FOR TEMPORARY INSTALLATION FROM ROTATIONAL POOL ASSETS.

<sup>3</sup> VLS EQUIPPED SHIPS ONLY.

COMNAVSURFLANT/PACINST 3502.2E

USW COURSES - SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A O R S 5 0	C D G 4 7	D D G 6 3	D D G 5 1	F G G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1	
K-2E-4634 SINGLE SHIP ASW <sup>1</sup> (12D)					T M	T M	T M	T M													
K-2E-4635 TASK GROUP ASW TEAM TRAINING <sup>2</sup> (5D)					T M	T M	T M	T M													
K-2G-0539 ASW EVALUATOR <sup>3</sup> (26D)					2	2	2	2													
K-2G-2502 COORDINATED ASW (5D)					2	2	2	2													
K-050-2131 LAMPS AVIATION ORDNACE HANDLING (4D) <sup>4</sup>					T M	T M	T M	T M													
J-123-0568 MK32 SVTT OPS/MAINT (11D)					2	2	2	2													
K-130-0074 AN/UQN-4 SONAR SOUNDING SET OPS/MAINT <sup>5</sup> (5D)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
K-130-0213 AN/WQC-2 OPS/MAINT <sup>6</sup> (5D)				1	1	1	1	1											1		1
K-130-1074 BASIC ACOUSTIC ANALYSIS REFRESHER (BAAR) <sup>7</sup> (12D)					*	*	*	*													
K-130-1075/1130 AN/SLQ-25/25A OPS/MAINT <sup>8</sup> (5D/3D)	2	2	2		2	2	2	2	2	2	2	2	2	2	2	2				2	
K-130-1116 SQQ-89(V)-T OBT MAINTENANCE <sup>9</sup> (5D)					2	2	2	2													

- 1 SCHEDULE PRIOR TO TSTA I. 1 TEAM MIXED BLUE/GOLD WATCHSTANDERS AND 3 CSTT MEMBERS.
- 2 SCHEDULED ICW INTERMEDIATE AND ADVANCED TRAINING IN PREDEPLOYMENT WORKUP.
- 3 COI J-2G-0536 CAN SATISFY ONE REQUIREMENT.
- 4 COURSE TAILORED TO TEAM CONCEPT. FOUR HANDLING TEAM MEMBERS REQUIRED: TEAM LEADER/QA, SAFETY OBSERVER, AND TWO BANDERS. USS ARLIEGH BURKE (DDG 51) EXEMPT.
- 5 HOLDERS OF NEC ST-0402, 0414, AND 0455 RECEIVE THIS COURSE AS PART OF PIPELINE TRAINING, AND FULLFILL THIS REQUIREMENT.
- 6 HOLDERS OF NEC ST-0402, 0414, AND 0455 RECEIVE THIS COURSE AS PART OF PIPELINE TRAINING, AND FULLFILL THIS REQUIREMENT.
- 7 REQUIRED ANNUALLY FOR ACOUSTIC ANALYSTS, NEC 0445 AND 0450, 2 GRADS PER YEAR.
- 8 SHIPS EQUIPPED WITH EC16 ALSO ATTEND K-130-1129. HOLDERS OF NEC ST-0402, ST-0407, ST-0415 AND ST-0430 RECEIVE THIS COURSE AS PART OF PIPELINE TRAINING AND FULLFILL THIS REQUIREMENT.

USW COURSES-SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A R E 5 0	C G 4 3	D D 6 1	D D 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 7	L S D 6	L S D 1	L S T	M C M	M C S	M H C 5 1
K-130-1117 SQQ-89(V)-T OBT OPS/ADMIN <sup>10</sup> (11D)					2	2	2	2												
K-130-1121 SIMAS (V2) OPERATOR <sup>11</sup> (5D)					2	2	2	2												
K-221-0078 ASTAC PROFICIENCY MAINTENANCE <sup>12</sup> (5D)					*	*	*	*												
(NO COURSE NR) (FTSC) SDRW/SRD (3D) <sup>13</sup>					*	*	*	*												

<sup>9</sup> AN/SQQ-89(V) ON BOARD TRAINER (OBT) EQUIPPED SHIPS ONLY. HOLDERS OF NEC ST-0415 RECEIVE THIS COURSE AS PART OF PIPELINE TRAINING AND FULFILL THIS REQUIREMENT.

<sup>10</sup> AN/SQQ-89(V) ON BOARD TRAINER (OBT) EQUIPPED SHIPS ONLY. HOLDERS OF NEC ST-0415 RECEIVE THIS COURSE AS PART OF PIPELINE TRAINING AND FULFILL THIS REQUIREMENT.

<sup>11</sup> HOLDERS OF NEC ST-0407, AND ST-0415 RECEIVE THIS COURSE AS PART OF PIPELINE TRAINING AND FULLFILL THIS REQUIREMENT.

<sup>12</sup> AS REQUIRED BY OPNAVINST 1211.2 (SERIES)

<sup>13</sup> ASWO AND ALL STG WITHIN 4 MONTHS OF REPORTING, ANNUAL REFRESHER REQUIRED.

COMNAVSURFLANT/PACINST 3502.2E

AFLOAT STAFF COURSES

COURSE INFORMATION	CURDES	DRON	MWARCOM	MICRON	PHIBRON	PSIRGRU	NOTES/COMMENTS
K-2E-3114 FIRE SUPPORT COORDINATION <sup>1</sup> (8D)					2		
K-2E-3119 JOINT MPF STAFF PLANNING (5D)					2	2	
J-2E-4316 FIRE SUPPORT COORDINATION IN MAGTF OPS <sup>2</sup> (12D)					2	2	
K-2G-0037 AMW INDOCTRINATION (5D)				1	3	3	
K-2G-0045 SUPPORTING ARMS COORDINATION CENTER (4D)					*	*	ALL AMW STAFF (USN/USMC) ASSIGNED SACC DUTIES
J-2G-0048 EXPEDITIONARY WARFARE STAFF PLANNING (5D)				1	2	3	
K-2G-0079 STAFF TACTICAL WATCH OFFICER (19D)	7	4			2	3	ONE MUST BE OPS OFFICER
K-2G-0127 OTH-T C4I (5D)						2	INTEL OFFICER (1630) AND IS.
J-2G-0210 EWO SURFACE (12D)	1	1			2		
J-2G-0966 (2D) OPSEC STAFF PLANNER	2	1		1	1	1	
J-2G-2302 JMCIS AFLOAT MGR (5D)	2	2			1	1	
A-2G-2758 MINE WARFARE CORE (12D)	1		*	*	1	1	*ALL MINEWARCOM AND MCMRON STAFF OFFICERS
A-2G-2767 BF MCM OFFICER (5D)	1		3	3	1	1	
K-2G-3003 COMMAND AND CONTROL WARFARE COMMANDER (5D)	4				2		
K-2G-3005 TLAM TACTICAL COMMANDER (4D)	3	3					

<sup>1</sup> PAC ONLY. LANT EQUIVALENT IS J-2E-4316.

<sup>2</sup> LANT ONLY. PAC EQUIVALENT IS K-2E-3114.

## AFLOAT STAFF COURSES

COURSE INFORMATION	C R U D E S G R U	D R O N S G R U	M I R A O R C O M	M N R O N	P M B O R U	P H I B R O R U	S I R F G R U	NOTES/COMMENTS
J-3A-1951 AFLOAT INTEL SYSTEMS MANAGERS OVERVIEW (5D)	2				1	1		INTEL OFFICER (1630)
K-3A-5034 BASIC SHIPBOARD INTEL (12D)		1		1			1	STAFF COLLATERAL DUTY INTEL OFFICER
S-3C-0001 SECURITY MANAGER (5D)	1	1	1	1	1	1	1	
V-4C-0013 EKMS MANAGER (12D)	2	1	1	3	1		2	
A-4H-0173 CDC TAO (40D)	6	4		3	6	3	2	SWOS DEPT HEAD IS EQUIVALENT
A-4J-0020 AFLOAT SAFETY OFFICER <sup>3</sup> (12D)	1				1			
S-5F-0014 LEGAL OFFICER (30D)				1			1	
A-8B-0008 AFLOAT HAZMAT COORDINATOR <sup>4</sup> (2D)	1		1		1			
J-041-0103 AMMO ADMIN (5D)	1	1	1		1		1	
A-050-0001 COMMAND TRAINING TEAM INDOCTRINATION (4D)	3		2		3	2		ALL CTT MEMBERS - OPNAVINST 5354.1B
J-150-0987 NTCS-A STW INTEL APPS(33D)						1		IS
J-150-2957 GLOBAL C2 SYS MARITIME INTEL CENTER MANAGER (12D)						2		INTEL OFF (1630) AND IS.
J-150-2966 EXPEDITIONARY WARFARE INTEL (EWIC) (17D)					1	2		INTEL OFF (1630) AND IS.
K-221-0120 LHA NTDS TACC TEAM TRAINING (5D)						*		AS PRESCRIBED BY PHIBRON COMMANDER
K-221-0124 MULTI LINK OPERATOR (12D)	3	1						

<sup>3</sup> TRAINING INCLUDED IN DEPARTMENT HEAD AND PXO CURRICULUMS FULLFILLS THIS REQUIREMENT.

<sup>4</sup> TRAINING INCLUDED IN DEPARTMENT HEAD AND PXO CURRICULUMS FULLFILLS THIS REQUIREMENT.

COMNAVSURFLANT/PACINST 3502.2E

AFLOAT STAFF COURSES

COURSE INFORMATION	C R U D E S G R U	D R O N R C O M	M I W A R O N	M C R O N	P H B R U	P H B R O U	S I R F R U	NOTES/COMMENTS
J-221-2311 GLOBAL C2 SYS COMMON MARITIME OPERATOR (33D)	1	1			1	1		
J-243-0972 JOINT INTEL (12D)					4			LANT ONLY
J-243-0984 SCI ADMINISTRATION AND PHYSICAL SECURITY (5D)	3		1		1	1		
K-243-5040 JTF INTEL MANAGER (5D)	1				1	1		INTEL OFF (1630)
S-243-5045 JDISS BASIC OPERATOR (5D)						1		
B-300-1000 SURFACE FORCE MEDICAL INDOC (5D)						*		HM NOT HOLDING NEC HM-8425
B-322-2310 HEARING CONSERVATION AFLOAT <sup>5</sup> (1D)	1		1	1				
B-322-2320 (EPMU) HEAT STRESS AFLOAT <sup>6</sup> (1D)	1		1	1	1			
B-322-2330 (EPMU) HEALTH EFFECTS/ ASBESTOS AND OTHER MATLS (1D)	1						1	
A-501-0011 COMMAND CAREER COUNSELOR (26D)	1			1	1			
P-501-0060 DAPA (5D)	1		1	1	1		1	
K-821-2142 ENGINEERING PROPULSION FUELS/OILS & JP-5 TESTING (4D)				1	1			
(NO COURSE NR) PAC THEATER INTEL ARCH	2				1	1		INTEL OFF - PAC ONLY

<sup>5</sup> COI NOT OFFERED BY EPMU-5 IN SAN DIEGO. EPMU 5 WILL PROVIDE "TRAIN-THE-TRAINER" ASSISTANCE TO SAN DIEGO BASED COMMANDS IN LIEU OF COI.

<sup>6</sup> COI NOT OFFERED BY EPMU-5 IN SAN DIEGO. EPMU 5 WILL PROVIDE "TRAIN-THE-TRAINER" ASSISTANCE TO SAN DIEGO BASED COMMANDS IN LIEU OF COI.

AFLOAT STAFF COURSES

COURSE INFORMATION	C R U D E S G R U	D R O N C O M	M I N A R C O M	M N R O N C O M	P M R O N C O M	P H I B I T O R Y	P H I B I T O R Y	S U B G R O U P	NOTES/COMMENTS
(NO COURSE NR) (CSMTT) AVAITION SAFETY OFFICER (42D)	1	1							LANT ONLY
(NO COURSE NR) PREVENT	*	*	*	*	*	*	*	*	10% OF COMMAND
(NO COURSE NR) ADAMS MANAGER/SUP	*	*	*	*	*	*	*	*	COMO/CSO/CMC ATTEND MANAGER COI, ALL E-7 AND ABOVE ATTEND SUP COI.

COMNAVSURFLANT/PACINST 3502.2E

STAFF/UNIT COURSES

COURSE INFORMATION	A C U	B E A C H G R U	B M U	E O D G R U	E O D T E U	E O D D M C M	E O D V S W / M C M	E O D M O B	N R F E S H O R E	E O D S M S	E O D O C D	E O D A S D	E O D C O M M	M D S U	N A V C H A P G R U	P H I B C B I N R O N	C O O P M G R U	T A C C R O N	T A C R O N	M I U N I T	I B U N I T	N I W G S T A F F	H D U N I T	NOTES/ COMMENTS
K-2E-3107 ARG/MEU (SOC) STAFF PLANNING (12D)																				*				DET E-7 AND ABOVE. ACTUAL PLANNING SATISFIES REQUIREMENT.
K-2G-0037 AMPHIB WARFARE INDOCTRINATION (5D)	*	2	*	1				*	1							*		2	@	1		1	1	@ ALL DET OFFICERS *ALL DET OIC
J-2G-0044 AMPHIBIOUS AIR-SPACE OPERATIONS COORD <sup>1</sup> (2D)																				*				ALL DET OFFICERS
K-2G-0045 SUPPORTING ARMS COORDINATION (4D)																				*				ONE OFF PER DET
J-2G-0048 EXPEDITIONARY WARFARE STAFF PLANNING (5D)	*	3	*												1	*		1	@	1		1	1	@ALL DET OFFICERS *ALL DET OIC
K-2G-0079 STAFF TACTICAL WATCH OFFICER (19D)																				2				
K-2G-0127 OTH-T C4I (5D)																				*		*	*	ONE PER WATCH SECT
J-2G-0966 OPSEC PLANNING (2D)																				*		*	*	*1 PER DET
E-2G-2002 SAR OFFICER (5D)																				*				ONE OFF PER DET

<sup>1</sup> LANTFLT COMMANDS ONLY

COMNAVSURFLANT/PACINST 3502.2E

STAFF/UNIT COURSES

COURSE INFORMATION	A C U	B E A C H G R U	B M U	E O D G R U	E O D T U	E O D M U	E O D M C M /	E O D V S W /	E O D M O B M C M	N R F O S H O R E	E O D S M O S	E O D O C D	E O D A C S D	E O D O M M	M D S U	N A V C H A P G R U	P H I B C B	C O P M I N R O N	T A C C R O N	T A C R O N	M I U N I T	I B U	N I W G S T A F F	H D U N I T	NOTES/ COMMENTS	
K-2G-2207 SR QM NAVIGATION (12D)					1																					
J-2G-2302 JMCIS AFLOAT MANAGER (5D)																				*				1	1	*ONE OFFICER PER DET.
K-2G-3003 C2 WARFARE (5D)																					1			1	1	
J-3A-0952 INTEL REFRESHER (5D)																									1	
S-3C-0001 SECURITY MANAGER																									1	
A-4A-0016 FACILITY PLANNER (5D)				1																						
A-4A-0048 FACILITIES PROJECTS SEM (3D)				1																						
V-4C-0013 EKMS MANAGER (12D)				1	1	1									1						1			1	1	
A-4J-0020 AFLOAT SAFETY OFFICER <sup>2</sup> (12D)	1	1	1	1											1											
S-5F-0011 MILITARY JUSTICE SENIOR OFFICER (5D)		1		1	1	1	1	1							1				1					1		
S-5F-0014 LEGAL OFFICER (30D)	1	1	1	1		1									1	1	1	1								

<sup>2</sup> TRAINING INCLUDED IN DEPT HEAD AND PXO CURRICULUM WILL FULLFILL THIS REQUIREMENT.

COMNAVSURFLANT/PACINST 3502.2E

STAFF/UNIT COURSES

COURSE INFORMATION	A C U	B E A C H G R U	B M U	E O D G R U	E O D T E U	E O D M C M	E O D V S W / M C M	E O D M O B	N R F O S H O R E	E O D S M S	E O D O C D	E O D A C S D	E O D O M M	M D S U	N A V C H A P G R U	P H I B C B I N R O N	C O A C C R O N	T A C C R O N	T A C C R O N	M I U N I T	I B U	N I W G S T A F F	H D U N I T	NOTES/ COMMENTS		
A-8B-0008 AFLOAT HAZMAT COORDINATOR <sup>3</sup> (2D)	1	1	1	1	1	1	1	1						1												
A-8B-0045 SUPPLY INDOC FOR LINE OFFICERS (33D)				1	1	2										1										
A-8C-0013 SHIP LOADING/ STOWAGE (12D)																	7									
J-041-0103 AMMO ADMIN (5D)	1	1	1	2	2	2	1	1	1	2	1	1			1	1	2				1	1	1			
J-041-0145 50 CAL OPS/MAINT																						1				
A-050-0001 COMMAND TRAINING TEAM INDOC (4D)	1		1	1	1	2		1		1				1		1					*	*	*	*	*1 PER UNIT	
A-050-0002 CAT TEAM TRAINING (2D)																						*	*	*	*	*1 PER UNIT
K-060-2220 2ND CLASS SWIMMER TEST <sup>4</sup> (1D)	*		*		1	2			2				2	2	*		*					@	@		@ALL BOAT CREW	
K-062-0625 RIB COXSWAIN <sup>5</sup> (5D)					*	*	*	*	*	*	*	*	*	*	*							@			@2 PER BOAT	
K-062-0634 BASIC BOAT COXSWAIN <sup>6</sup> (5D)					*	*	*	*	*	*	*	*	*	*	*							@			IBU ONLY	

<sup>3</sup> TRAINING INCLUDED IN DEPT HEAD AND PXO CURRICULUM WILL FULLFILL THIS REQUIREMENT.

<sup>4</sup> ALL BOAT CREW MEMBERS IAW MILPERSMAN 6610120. K-130-2138 CAN BE USED FOR CERTIFICATION.

<sup>5</sup> 2 PER BOAT

<sup>6</sup> 2 PER BOAT

COMNAVSURFLANT/PACINST 3502.2E

STAFF/UNIT COURSES

COURSE INFORMATION	A C U	B E A C H G R U	B M U	E O D G R U	E O D T M U	E O D M C M / M C M	E O D V S W B /	E O D M O B M U	N E R O D F S H O R E	E O D S M O S	E O D O C D	E O D A C S D	E O D O M M	M D S U	N A V C H A P G R U	P H I B C B I N R O N	C O P M I N R O N	T A C C G R U	T A C C R O N	M I U N I T	I B U S T A F F	N I W G U N I T	H D C U N I T	NOTES/ COMMENTS
K-121-0181 SYSTEM ENGINEERING (5D)																				*		*	*	*1 PER WATCH SECTION
K-130-1074 BAAR																				*				ALL STs
J-150-2957 C2PC (12D)																				1		1		
J-150-2966 EXPEDITIONARY WARFARE INTEL (EWIC) (17D)					@ 1															*		1	1	ALL INTEL OFF (1630) AND IS PERSONNEL
K-221-0120 LHA NTDS TACTICAL AIR CONTROL (5D) OR J-221-0351 LHD ACDS OPERATOR TRAINING (19D)																				*				* ALL TACC/ SACC WATCH- STANDERS. (WHICHEVER COURSE IS MOST APPROPRIATE)
K-243-0974 INTEL PHOTOGRAPHY (5D)				1	1	1	1	1	1															
S-243-5045 JDISS BASIC OPS (5D)																							1	1
A-260-0050 OTCIXS OPERATOR (5D)																				1		1	1	
B-300-1000 SURF FORCE MED INDOC (5D)																				*	*	*	*	*HMs NOT HOLDING NEC 8425
B-322-1075 SHIPBOARD PEST MGMT (2D)																1								

STAFF/UNIT COURSES

COURSE INFORMATION	A C U	B E A C H G R U	B M U	E O D G R U	E O D T E U	E O D M C M	E O D V S W / M C M	E O D M O B	N R F O S H O M R E	E O D S M S	E O D O C D	E O D A C S D	E O D C O M M	M D S U	N A V C H A P G R U	P H I B C B I N R O N	T A C C R O N	T A C C R O N	M I U N I T	I B U	N I W G S T A F F	H D U N I T	NOTES/ COMMENTS	
B-322-2101/2102 EPMU FOOD SERV SANITATION CERT/RECERT (4D/3D)																				1		1		
B-322-2320 (EPMU) HEAT STRESS (1D)	1	1	1	1	1	1	1	1						1	1					*	*	*	*	*ALL HMs
B-322-2330 (EPMU) HEALTH EFFECTS/ASBEST OS & OTHER THERMAL INSULATION (1D)	1																							
A-322-2600 HAZMAT CONTROL AND MANAGEMENT TECH (SNEC 9595)	1		1	1		1	1	1																
G-431-0006 U.S. SECRET SERVICE SUPPORT TRAINING (2D) <sup>7</sup>					*	*	*	*	*	*	*	*												
G-431-0007 EXPLOSIVE DRIVER (2D) <sup>8</sup>						*	*	*	*	*										?				
G-431-0013 MK 16 DIVER SUPPORT (14D)					2	3	1	1	1	4	1													
G-431-0014 EOD SCUBA SUPERVISOR (12D)				1	2	3	1	1	1	4	1	1	1											
A-431-0015 ADV EOD MGMT & TECH (12D)				2	2	4			2															

<sup>7</sup> ALL EOD PERSONNEL  
<sup>8</sup> MU NEEDS 40 HR COURSE

COMNAVSURFLANT/PACINST 3502.2E

STAFF/UNIT COURSES

COURSE INFORMATION	A	B	B	E	E	E	E	E	E	N	E	E	E	E	E	M	N	P	C	T	T	M	I	N	H	NOTES/ COMMENTS
	C	E	M	O	O	O	O	O	O	R	O	O	O	O	O	D	A	H	O	A	A	I	B	I	D	
	U	A	U	D	D	D	D	D	D	F	D	D	D	D	D	S	V	I	O	C	C	U	U	U	U	
		C	H	G	R	E	M	V	M	O	S	H	O	S	O	C	H	B	P	G	R	W	W	G	U	
		R	U	U	U	U	M	W	/	D	O	R	M	C	M	A	A	C	M	R	O	U	N	S	I	
										U	R	E				P	B	I	I	N	I	T	T	A		
										M						U	R	O	N					F		
A-431-0049 MARINE MAMMAL SYS OPERATOR (33D)								4				4														
A-431-0065 ADV ACCESS & DISABLEMENT (12D)				2	2	4					1															
A-431-0075 EOD MIXED GAS DIVING UBA (12D) <sup>9</sup>				*	*	*	*	*	*	*	*	*														
K-431-0083 (USA) MILITARY FREEFALL <sup>10</sup>				*	*	*				*	*															PIC DETS ONLY
K-431-0084 STATIC LINE JUMPMASTER (18D) <sup>11</sup>				1	1	3	3			3	2															*PIC DETS ONLY
K-431-0085 RAM-AIR PARA TRANSITION (4D) <sup>12</sup>				1	1	3	3	3	3		2															*PIC DETS ONLY
A-493-2099 SAFETY PROGRAMS AFLOAT (5D)	1		1	1	1	1				1	1															
K-495-0051 GAS FREE ENGINEER <sup>13</sup> (5D)	*	*				1										*	*									NSTM 074V3/ OPNAVINST 3541.1C
J-495-0412 GEN SHIPBOARD FIRE FIGHTING (1D) <sup>14</sup>	*		*		1	1	1	1	1							*	*									

<sup>9</sup> \* ALL EOD PERSONNEL  
<sup>10</sup> ALL STATIC JUMPMASTERS  
<sup>11</sup> 25% OF QUALIFIED STATIC LINE JUMPERS  
<sup>12</sup> ALL QUALIFIED JUMPERS  
<sup>13</sup> 1 PER MDSU SALVAGE DET.  
<sup>14</sup> ALL DET PERSONNEL. INCL MDSU LCU CREW

STAFF/UNIT COURSES

COURSE INFORMATION	A	B	B	E	E	E	E	E	E	N	E	E	E	E	E	M	N	P	C	T	T	M	I	N	H	NOTES/ COMMENTS
	C	E	M	O	O	O	O	O	O	R	O	O	O	O	O	D	A	H	O	A	A	I	I	B	I	
	U	A	U	D	D	D	D	D	D	F	D	D	D	D	D	S	V	I	O	C	C	U	U	U	U	
		C	H	G	R	E	M	V	M	O	S	O	O	O	O	C	C	B	P	G	R	W	W	W	W	
		R	G	R	U	U	M	S	/	B	O	S	D	D	M	A	H	C	M	R	O	U	U	U	U	
		U	R	U			M	W	/	M	R	S	D	D	M	P	C	B	I	N	R	U	U	U	U	
										U	E															
P-500-0020 PO1 LEADERSHIP (12D) <sup>15</sup>	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
P-500-0021 CPO LEADERSHIP (12D) <sup>16</sup>	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
P-500-0025 PO2 LEADERSHIP (12D) <sup>17</sup>	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
A-500-0036 NAVY LEADERSHIP DEVELOPMENT LCPO (5D) <sup>18</sup>				1	1	8		2		2	2					*										
P-501-0060 DAPA (5D)	*	*	*	1	1	1		1		1						*	*	*	1	1	1	@	@	@	@	*1 PER 250, @ 1 PER UNIT
A-531-0011 JMCIS INFO SYS ADMIN COMMON CORE (19D)																						*		*	*	*1 PER WATCH SECTION
A-651-0070 AIR COMPR & COMPR AIR SYS COMPONENT MAINT (16D)					1	2				1						2										
K-652-0231 SMALL BOAT ENGINEER (12D)																							1			
K-652-0232 VOLVO/CUMMINS BOAT ENG OVERHAUL (26D)	*					4		4										*	1				@			*1.5 PER CRAFT @1 PER BOAT CREW
K-652-0237 OUTBOARD MOTOR OVERHAUL (12D)					2	2	1	4		4						2										

15 ALL E-6 MUST COMPLETE PRIOR TO ADVANCEMENT TO E-7  
 16 ALL E-7 MUST COMPLETE PRIOR TO ADVANCEMENT TO E-8  
 17 ALL E-5 MUST COMPLETE PRIOR TO ADVANCEMENT TO E-6  
 18 ALL SALVAGE DETS/LCU CREWS

COMNAVSURFLANT/PACINST 3502.2E

STAFF/UNIT COURSES

COURSE INFORMATION	A	B	B	E	E	E	E	E	E	N	E	E	E	E	E	M	N	P	C	T	T	M	I	N	H	NOTES/ COMMENTS
	C	E	M	O	O	O	O	O	O	R	O	O	O	O	O	D	A	H	O	A	A	I	B	I	D	
	U	A	U	D	D	D	D	D	D	F	D	D	D	D	D	S	V	I	O	C	C	U	U	U	U	
		C	H	G	T	M	M	V	M	E	S	O	A	C	O	U	C	B	P	G	R	W	W	G	U	
		R	R	R	U	U	/	S	O	O	H	W	C	M	M		H	C	I	R	O	U	U	U	U	
		U					M	B	D	M	R	M	C	R			A	B	N	O	N	I	I	I	I	
							C	M	U	E							P									
K-652-2146 HYDRAULIC SYSTEMS (12D)					1					1																
K-821-2142 PROPULSION FUELS/ OILS & JP-5 TESTING (4D)					1					1									1							
J-822-0039 BOATSWAIN MATE SUPV (10D)																	3						?			
A-830-0002 PHYSICAL SECURITY (5D)				*	*	*		*		*												*	*	*	*	*1 PER UNIT
J-830-0010 ATTO																								*	*	1 PER UNIT
J-830-0015 FPO																						*				1 PER BOAT CREW
K-860-0010 (USA) PARACHUTE RIGGER (60D) FT LEE, VA				1	3	3					2															
(USA) 8C- F9/811 MIL STD TRANS MOVEMENT PROC																	6									FT EUSTIS, VA
(USA) ZEF6/001-F15 MIL FREEFALL JUMPMASER				1	3	3					2															
(USAF) 35AZA1105000 4N-F3/860-FI AIRDROP LOAD INSP (5D)						2			1	1																1 PER PIC DET
(USAF) H-81- 3556 AIRLIFT LOADMASTER															*							@	@	@	@	1 PER MDSU SAL DET, @2 PER UNIT

COMNAVSURFLANT/PACINST 3502.2E

STAFF/UNIT COURSES

COURSE INFORMATION	A C U	B E A C H G R U	B M U	E O D G R U	E O D T E U	E O D M C M	E O D V S W / M C M	E O D M O B	N R F E S H O R E	E O D S M S	E O D O C D	E O D A C S D	E O D C O M M	M D S U	N A V C H A P G R U	P H I B I T O N	C O P M I N R O N	T A C G R U	T A C R O N	M I U N I T	I B U	N I U W G S T A F F	H D C U N I T	NOTES/ COMMENTS
T60000-0000 AIRLIFT OF HAZMAT SAVANNAH IL/ROTA SP				1	4	4	1	1	1	2	1	1	1	1	*	6								1 PER DET 1 PER MDSU SAL DET
(NO COURSE NR) GPS SYS TRAINING				1	4	4	1	1	1	2	1	1	1	1										
(NO COURSE NR) HELICOPTER ROPE SUSPENSION MASTER TRAINING				1	1	2	1	1																
(NO COURSE NR) NAVY CRAFTMASTER TRAINING				1	1	2	1	1																
(NO COURSE NR) BOSTON WHALER FIBERGLASSING						1																		
(NO COURSE NR) FIBERGLASS REPAIR						1																		
(NO COURSE NR) EMERG VEHICLE OPER						*	*	*	*	*	*	*	*											*ALL EMERG VEHICLE OPERATORS
(NO COURSE NR) DOWTY SIDE SCAN SONAR OPER/MAINT								2				2	2				1							
(NO COURSE NR) HARP TRAINING				1	3	3			2															
(NO COURSE NR) OCCUPATIONAL NOISE AND HEARING CONSERVATION	1	1	1	1	1			1									1							
(NO COURSE NR) AQUA AIR A/C REPAIR				2																				

COMNAVSURFLANT/PACINST 3502.2E

STAFF/UNIT COURSES

COURSE INFORMATION	A C U	B E A C H G R U	B M U	E O D G R U	E O D T E U	E O D M C M	E O D V S W / M C M	E O D M O B	N R F O S H O R E	E O D S M S	E O D O C D	E O D A S D	E O D C O M M	M D S U	N A V C H A P G R U	P H I B C B	C O P M I N R O N	T A C G R U	T A C R O N	M I U U N I T	I B U S T A F F	H I D U N I T	NOTES/ COMMENTS	
(NO COURSE NR) NAVY NUC ADV EOD TRAINING				1	2	6	4	1																
(NO COURSE NR) NISC INTEL INDOC				1	2	1	1																	
(NO COURSE NR) 871 DIESEL MAINT AND OVERHAUL (10D)						2		2																
(NO COURSE NR) CPR TRAINING	3	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3							*ALL QUAL DIVERS, ANNUAL CERT
(NO COURSE NR) ADAMS MANAGER/SUP	*		*	*	*	*	*	*	*								*						*CO/XO/CMC ATTEND MNGR, E-7 ABOVE ATTEND SUP	
(NO COURSE NR) CESE MGMT SEMINAR				1	1	1										1								
(NO COURSE NR) NUCLEAR CRITICALITY LOS ALAMOS				1	2	2	4	1																
(NO COURSE NR) DEFENSE SMALL PURCHASE SCH, NSC NORVA (5D)				2	2	2		1																
(FACTORY COURSE) RIX COMPRESSOR MAINT				2	2			1	1															
(FACTORY COURSE) ONAN MARINE GEN FACT SVC, MINN MN (5D)					2			1								3								

STAFF/UNIT COURSES

COURSE INFORMATION	A C U	B E A C H G R U	B M U	E O D G R U	E O D T E U	E O D M C M	E O D V S W / M C M	E O D M O B	N R F O S H O R E	E O D S M O S	E O D O C D	E O D A C S D	E O D O M M	M D S U	N A V C H A P G R U	P H I B C B	C O P M I N R O N	T A C G R U	T A C R O N	M I U N I T	I B U	N I W G S T A F F	H D U N I T	NOTES/ COMMENTS	
(FACTORY COURSE) KLINE SIDE SCAN SONAR OPER.MAINT					2	1			2				2	2			1								
LANTFLTRACEN LOW INTENSITY CONFLICT TRAINING				1	2	4	2	2	2		2	3													
(NO COURSE NR) SERE SCHOOL						4		3	3																
(NO COURSE NR) EXPLOSIVE DRIVER				2	4	4	3	3	3		3	3	2												

## APPENDIX E

## SHIPBOARD TRAINING ENHANCEMENT PROGRAM (STEP) COURSE REQUIREMENTS

E-101 **General.**

a. The Shipboard Training Enhancement Program (STEP) provides interactive courseware (ICW) distributed semi-annually by NETPMSA on CD-ROM. STEP is a cost effective training alternative for selected courses. STEP courses are equivalent to classroom instruction and satisfy course completion requirements. STEP courses include student testing in order to evaluate student performance. Successful completion of a STEP course is documented on Service Record Page 4.

b. STEP is designed to provide shipboard, individual and/or group technology-based training to develop or enhance:

- Operator proficiency
- Maintenance skills
- Administrative skills
- Firefighting and damage control skills
- Shipboard and watchstation qualifications
- Advanced skills for supervisory personnel
- Practical knowledge through general military training
- Self-improvement through general education

c. Presently the principal instructional tools of STEP are video tapes and computer interactive courseware. The program may grow to include workbooks, study guides and multimedia training programs.

d. NAVEDTRA 630, Catalog of Transportable On Board Training, (currently distributed on CD-ROM along with all STEP courseware), should be used in developing the ship's training plan. The catalog may also be viewed on the CNET home page at <http://www.cnet.navy.mil/netpdtc/step/index.html>.

e. One of the advantages of STEP is that it reduces costs associated with TAD expenses and time lost due to absence from the command. Another advantage is that the number of course graduates is not limited by these expenses. The ship or staff can train as many individuals as they feel they need to have. Ships and staffs are encouraged to exploit these advantages.

f. The number of courses available in STEP is currently small, but will increase steadily as new courses are developed or transition from formal courses to STEP. Computer equipment to make use of STEP is being distributed as part of CNET's Library Multimedia Resource Center (LMRC) initiative. The CNET POC for further information / assistance in this regard is NETPMSA Code 042 (904) 452-1899, DSN 922-1889, FAX (904) 452-1738.

E-102 **Requirements.** This appendix contains STEP course requirements for ships, staffs and units of the Surface Forces which have received the STEP courseware and materials. Numbers in the tables indicate the minimum number of STEP course graduates who should be onboard. Where a course exists both as a school house COI and a STEP course, the STEP course should be preferred. Eventually, formal courses will be discontinued when they transition to STEP.

COMNAVSURFLANT/PACINST 3502.2E

STEP COURSES - SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A R E 5 0	C G 4 7	D D 9 6 3	D D G 5 1	F G 7	J C C	L C C	L H A	L H D	L P D 4	L P D 1 7	L S D 3 6	L S D 4 1	L S T	M C M	M C S	M H C 5 1
A-041-0103 AMMO ADMIN	1	5	5	1	2	2	2	2	1	1	2	2	2		2	2	2	1	2	1
A-063-0001 LOOKOUT TRAINING	6	6	6	6	6	6	6	6	6	6	6	6	6		6	6	6	6	6	6
A-102-0047 AN/WRN-6(V) GPS OPERATIONS <sup>1</sup>	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*
A-102-0065 AN/WRN-6(V) GPS MAINT <sup>2</sup>	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*
A-198-0001 EMI AWARENESS	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
A-495-0002 SUPPLEMENTAL EMERG EGRESS DEVICE (SEED)MANAGEMENT	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2
A-495-0003 SUPPLEMENTAL EMERG EGRESS DEVICE (SEED)MAINTENANCE	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
A-495-0004 P-100 PORTABLE PUMP	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2
A-495-0008 SCBA-BACS OPS					2		2					2				2				
A-495-0011 SCBA BREATHING AIR COMP.					2		2					2				2				
A-495-0012 SCBA OPS & MAINT					2		2					2				2				
A-495-0013 SCBA MAINT STEP					2		2					2				2				
A-495-0039 SCBA BACS MAINT					2		2					2				2				
A-495-0400 DCPO INDOC <sup>3</sup>	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*
A-495-0425 CBRD PPE	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
A-500-0038 3M OPS/ADMIN COURSE <sup>4</sup>	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*
A-500-0041 INTEGRATED SHIPBOARD MAINTENANCE SUPPORT (ISMS)	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
A-652-2141 SHIPBOARD CHT SYSTEMS	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1

1 ALL QM PERSONNEL ON WRN-6 EQUIPPED SHIPS  
 2 ALL NAV ET PERSONNEL ON WRN-6 EQUIPPED SHIPS  
 3 ONE PER DIVISION (DESIGNATED DCPO)  
 4 ONE PER DIVISION (DESIGNATED DCPO)

STEP COURSES-SHIPS

COURSE INFORMATION	A G F	A O E 1	A O E 6	A R E 5 0	C G 4 7	D D 6 3	D D 9 1	F G 5 7	J C C	L C C	L H A	L H D	L P D 4	L P D 7	L S D 6	L S D 1	L S T	M C M	M C S	M H C 5 1
A-670-0041 GENERAL PURPOSE ELECTRONIC TEST EQUIP (GPETE)	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
A-690-0003 PLASTIC WASTE PROCESSOR (PWP)	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2
A-760-2165 SHIPBOARD ASBESTOS EMERGENCY RESPONSE <sup>5</sup>	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
A-800-0033 FOOD SERVICE SANITATION, BASIC AND REFRESHER <sup>6</sup>	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*

<sup>5</sup> THE PURPOSE OF THIS COURSE IS TO PROVIDE REFRESHER ENHANCEMENT TRAINING TO PERSONNEL WHO HAVE PREVIOUSLY ATTENDED THE FORMAL SAER COI A-760-2166 AND DOES NOT REPLACE THE FORMAL COI.

<sup>6</sup> REQUIRED FOR ALL PERSONNEL WORKING IN A FOOD SERVICE AREA FOR MORE THAN 29 DAYS

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## APPENDIX F

## GLOSSARY

- AAWC** - Anti-Air Warfare Commander
- ADP** - Automated Data Processing, computer based processing of information and files, and the associated equipment.
- Afloat Training Group** - Primary training organization for ship basic phase training.
- AFOSS** - Aviation Fuels Operational Sequencing System
- AIMD** - Aviation Intermediate Maintenance Department
- AOC** - Association of Old Crows, sponsors for annual EW award. *See* Chapter 5, Section 2.
- APTS** - Acoustic Proficiency Training Systems is an acoustic analysis CBT device available at FLEASWTRACEN, FTC Norfolk, and all ATGs. It is used for initial and refresher training of acoustic analysts.
- ARE** - Aviation Readiness Evaluation, a biannual evaluation preceding the aviation certification of aviation capable ships.
- ASTAC** - Anti-submarine Tactical Air Controller
- AT** - Annual Training. Reserve personnel annual active duty for training.
- AT/FP** - Anti-terrorism / Force Protection, refers to measures to enhance unit and personnel security through threat indoctrination, awareness training and physical security measures.
- ATG** - *See* Afloat Training Group
- ATT** - Aviation Training Team
- BAF** - Back-up Alert Force, part of ship's internal physical security organization.
- BFIMA** - Battle Force IMA, part of the concept of fostering an intermediate level maintenance capability in the Battle Force (BFIMA) or in the ARG (ARGIMA). *See* para. 2110.
- BFTT** - Battle Force Tactical Trainer, an onboard training capability being developed / installed in some ship classes.
- BIA** - Basic / Intermediate / Advanced, an acronym to describe some of the exercises requirements listed in Appendix A and to distinguish these exercises from the repetitive exercises that have shorter expiration periods. BIA exercises have a 2 year life.
- CART** - *See* Command Assessment of Readiness and Training
- CASREP** - Casualty Report, an operational report to report equipment / material casualties.
- CBT** - Computer based training
- CCOI / COI** - Critical Contact of Interest / Contact of Interest, terms to indicate level of importance of contact information
- CHOP** - Change in operation control; for example, when ship shifts from TYCOM operational control to that of numbered fleet commander.
- CINTEX** - Combined inport training exercise
- CIWS** - Close in weapons system, also called PHALANX. Variants Block 1 and Block 2.
- CLF** - Combat Logistics Force
- CMTQ** - *See* Cruise Missile Tactical Qualification
- Command Assessment of Readiness and Training**, CART 1 is a ship conducted review of personnel assignments and training requirements for the next IDTC. CART 2 is an ISIC conducted, ATG assisted, post maintenance period

## COMNAVSURFLANT/PACINST 3502.2E

assessment of the ship's training needs for the basic phase of training.

**COMSEC** - Communications Security

**CRC** - Communication Readiness Certification, *See* Chapter 2, Section 4. .

**CREWCERT** - Crew Certification Program, *See* Chapter 2, Section 4.

**CRT** - Casualty Response Team

**Cruise Missile Tactical Qualification**, a biannual, in most cases, required certification for Tomahawk and Harpoon equipped ships. *See* Chapter 2, Section 4.

**CSCCE** - Combat Systems Casualty Control Exercise

**CSOOW** - Combat Systems Officer of the Watch

**CSOSS** - Combat Systems Operational Sequencing System

**CSRR** - Combat Systems Readiness Review

**CSSQT** - Combat Systems Ship Qualification Trials

**CSTT** - Combat Systems Training Team

**CWOSS** - Chilled Water Operational Sequencing System

**DARTS** - Air Deployable Acoustic Readiness Training System is an acoustic analysis training system for HSL aircrews. ATGPAC is converting AIR DARTS scenarios to be compatible with the AN/SQQ-28(V) for shipboard training.

**DBM** - Data Base Manager, a watchstander who correlates non-real time contact locating information.

**DCTT** - Damage Control Training Team

**DLRP** - Data Link Reference Point, a reference point to coordinate the display of tactical data system information.

**DORA** – Diving Operational Readiness Assessment. A critical assessment of a salvage ships diving program.

**DT** - Developmental Test, part of the test and evaluation process of introducing new systems into the fleet

**ECO** - Engagement Control Officer, coordinator of Tomahawk mission

**EDVR** - Enlisted Distribution Verification Report.

**EEBD** - Emergency Escape Breathing Device

**EKMS** - Electronic Keying Material System, formerly CMS.

**EMATT** - MK 39 Expendable Mobile ASW Training Target.

**EMCON** - Emission control

**EMO** - Electronics Material Officer

**Engineering Qualification** – an ISIC conducted, ATG supported process that assures a ship is ready in propulsion training, operations and material. Conducted once per IDTC or every 24 months. *See* Chapter 2, Section 4.

**EOCC** - Engineering Operational Casualty Control, standard procedures to control anticipated casualties.

**EOOW** - Engineering Officer of the Watch

**EOP** - Engineering Operational Procedures

**EOSS** - Engineering Operational Sequencing System

**EP** - Engagement Planner, a watchstander in the SUW/STK organization of cruise missile equipped ships.

**E-Qual** - *See* Engineering Qualification.

**ESWS** - Enlisted Surface Warfare Specialist

**ETT** - Engineering Training Team

- EWEX** - Electronic Warfare Exercise, typically an inport training exercise.
- FDNF** - Forward Deployed Naval Forces, ships and staffs permanently homported in overseas locations.
- FEP** - Final Evaluation Period. ISIC conducted event. Culmination of basic training phase. *See* Chapter 2, Section 2.
- FIREX** - An acronym to describe firing portions of NSFS qualification. FIREX 1 is initial qualification, FIREX 2 is requalification.
- FXP** - Fleet Exercise Publication. A series of publications that describe training exercises in all mission areas for all platforms. Distributed on NTIC CD-ROM.
- GMT** - General Military Training
- HERO** - Hazards of Electromagnetic Radiation to Ordnance, refers to a prohibition on types of electromagnetic radiation while handling ordnance, etc.
- IDT** - Individual Drill for Training - Reserve personnel weekend training..
- IDTC** - Interdeployment Training Cycle, term used to describe the maintenance and workup period between deployments.
- IET** - Inport Emergency Team (IET)
- IMA** - Intermediate Maintenance Activity
- IMAV** - Intermediate Maintenance Availability
- IMT** - Integrated MCM Training (IMT)
- IOBT** - Internal On-board Trainer is the standalone AN/SQS-53D (EC-16/84) active sonar training subsystem.
- ISIC** - Immediate Superior in Command
- IIT** - Integrated Training Team
- JQR** - Job Qualification Requirements - a locally prepared qualification for which PQS does not exist.
- LC** - Launch Control, part of the strike team.
- LINKEX** - Link exercise for tactical data ships
- LMA** - Logistics Management Assessment
- LMRC** - Library Multimedia Resource Center, a shipboard facility with adequate resources to conduct training using computer based training tools. *See* Appendix E.
- LOA** - Light Off Assessment
- LOK** - Level of Knowledge
- LRTP** - Long Range Training Plan
- LTT** - Limited Training Team
- MATCONOFF** - Material Control Officer, a function typically in a battle group organization to facilitate the efficient provision and handling of repair parts.
- MCA** - Mid-Cycle Assessment – an optional ISIC conducted review of engineering readiness usually conducted while deployed ICW CART I.
- MCM** - Mine countermeasures, also mine countermeasures class ships.
- MEF** - Mid-East Force, non-battle group ships deployed to the Arabian Gulf
- MOVREP** - Movement report, and operation report concerning the location and movement of ships and staffs.
- MRC** - Maintenance Requirement Card, part of the Planned Maintenance System, on which steps, material and personnel requirements for a specific maintenance action are listed.
- MRCI** - Mine Readiness Certification Inspection
- MIT** - Medical Training Team, *also* Mobile Training Team
- NAVOSH** - Navy Occupational Safety and Health, a term used to describe training related to these areas.

## COMNAVSURFLANT/PACINST 3502.2E

**NEC** - Navy Enlisted Classification, a code used to describe enlisted skills gained through formal schools or experience. Used by the distribution system to fill designated billets with required skills.

**NFC** - Numbered Fleet Commander; i.e., C2F, C3F, C5F, C6F or C7F.

**NMETLS** - Navy Mission Essential Task List

**NOBC** - Navy Officer Billet Code, a code used to describe officer skills gained through experience.

**NRF** - Naval Reserve Force

**NSFS** - Naval Surface Fire Support, formerly Naval Gunfire Support (NGFS)

**NSTAD** - Naval Sensor Training Aids Department at FLEASWTRACEN was responsible for the Acoustic Sensor Training Aids Program (ASTAP). This program provided acoustic analysis recordings and manuals to all naval commands with acoustic detection capabilities or training missions. NSTAD has been disestablished and the ASTAP responsibilities have been assumed by ONI.

**NTFS** - Navy Training Feedback System, a tool evaluate training related deficiencies to appropriate levels .

**NTSP** - Navy Training System Plan, document used to describe required training for new systems planned for fleet introduction. Formerly Navy Training Plan (NTP)

**NTP** - *See* NTSP

**OBT** - Onboard Trainers

**OCSOT** - Operational Combat Systems Overall Test, a recurring combat systems PMS check.

**ODCR** - Officer Distribution Control Report

**OMT** - *See* Onboard Maintenance Training

**ONI** - Office of Naval Intelligence

**OOB** - Order of Battle, a listing of military resources; e.g., enemy order of battle is a list of enemy forces which are arrayed against friendly forces.

**OOC** - Out of commission, referring to equipment or material casualties.

**OPSEC** - Operational Security

**ORM** - Operational Risk Management, a process of assessing potential risk in operations and training. *See* Chapter 3, Section 1.

**OT** - Operational Test, part of the test and evaluation process of introducing new systems into the fleet

**PACFIRE** - Pre-action calibration. Test firing of guns prior to surface action/exercises. Used to determine arbitrary correction to hit (ACTH).

**PADS** - Passive Acoustic Display Simulator is an acoustic analysis computer based training (CBT) device.

**PBFT** - Planning Board for Training

**PDT&T** - Post Delivery Test and Trial

**PPG** - Pre-Overhaul Planning Guide

**PQS** - Personnel Qualification System, a formal qualification system in theory, systems and watch qualifications.

**PRT&T** - Post Repair Test and Trial

**QA** - Quality Assurance

**RAM** - Rolling Airframe Missile, an new short range AW weapons system being introduced in some ship classes.

**RBTP** - Reserve Billet Training Plan

**Repair 8** - The electronic casualty control organization in non-CSOSS ships.

**ROC** - Required Operational Capabilities

**ROE** - Rules of Engagement

- RSG** - Readiness Support Group
- RSO** - Readiness Support Organization
- SALVTRA** – Specialized maritime diving and salvage training for salvage ships.
- SALVTRE** – An annual ISIC conducted evaluation of diving and salvage readiness in salvage ships.
- SAT** - Security Alert Team, part of the shipboard physical security organization.
- SAU** - Ship Augment Units, reserve personnel units designated to augment specific ships' companies.
- SCLISIS** - Ship Configuration and Logistics Support Information System
- SDOSS** - Sewage Disposal Operational Sequencing System
- SEAOPS** - Safe Engineering and Operations, name of a series of manuals which are the primary reference for LCAC operations.
- SELRES** - Selected Reservists
- SERT** - Ship Electronic Repair Team
- SESI** - Shipboard Explosive Safety Inspection
- SMDR** - The Senior Medical Department Representative
- SOMMTIP** - Ship's Overhaul Modernization Manning and Training Information Program
- SORM** - Ship's Organization and Regulations Manual (OPNAVINST 3120.32)
- SORTS** - Status of Resources and Training Systems, an operational report describing ships material and training readiness to perform its mission.
- SRTS** - Short Range Training Schedule
- SSAAPP** - Surface Ship Acoustic Analysis Proficiency Program
- SSRNM** - Ship's Self Radiated Noise Measurement
- SSWC** - Ship's Surface Weapons Coordinator
- STEP** - Shipboard Training Enhancement Program. *See* Appendix E.
- STO** - System Test Officer
- STT** - Seamanship Training Team
- SWC** - Ship's Weapons Coordinator, underway watch position in charge of ships weapons in tactical data equipped ships.
- SWO BST** - Surface Warfare Officer Billet Specialty Training, training identified by BUPERS for required enroute training.
- SWTW** - Surface Warfare Training Week, see Chapter 4, Section 2.
- Tactical Training Strategy** - term to describe the current plan for training of ships and staffs, with emphasis on self sustaining training capability with training teams and "train the trainer" application of training resources.
- TADTAR** - Temporary Additional Duty Target. Money allocated to ships and staffs to support temporary additional duty (TAD) expenses.
- TAO** - Tactical Action Officer, key underway watch officer who may have weapons release authority in the temporary absence of the commanding officer.
- TCD** - Training Control Device allows the AN/SQQ-89(V)-T OBT on up to eight ships to run a coordinated, simultaneous ASW scenario.
- TEMADD** - Same as Temporary Additional Duty (TAD)
- TRMS** - TYCOM Readiness Management System. *See* Chapter 6.

**COMNAVSURFLANT/PACINST 3502.2E**

**TRNGREP** - Training report. Vehicle for ships and units of the force to report accomplishment of required training.

**TSTA** - Tailored Ship Training Availability. The training period(s) between CART II and FEP, supported by ATG in accordance with ISIC / CO desires.

**TTS** - See Tactical Training Strategy

**TYCOM** - Type Commander

**UBFCS** - Underwater battery fire control system

**UUV** - Unmanned underwater vehicle

**VBSS** - Visit, Board, Search and Seizure, refers to measure used with respect to commercial shipping, typically in conjunction with counter-drug or maritime interception operations.

**VERTREP** - Vertical replenishment

**Warfare Specialty Training** - Formerly TSTA 4. This is specific training for amphibious warfare, mine warfare, or salvage ships conducted in conjunction with other basic training.

**WCO** - Weapons Control Officer

## INDEX

**A**

Advanced Training Phase, 2-1-2  
 guidelines, 2-7-1  
 Afloat Training Group (ATG), 2-3-3  
 Assessments  
 command, 2-2-1  
 Awards  
 ADM Flateley Memorial, 4-2-4  
 ADM Pride Frigate ASW Readiness, 4-2-3  
 ADM Stan Arthur Logistics Award, 4-2-7  
 Arleigh Burke Fleet Trophy, 4-2-1  
 Battenburg Cup, 4-2-1  
 Battle Efficiency, 4-1-1  
 CNO Ship Safety, 4-2-4  
 Comaand and Control, 4-1-3  
 Command Excellence, 4-1-1, 4-1-2  
 display of, 4-1-5  
 Engineering Survivability, 4-1-3  
 Helo Ship Safety, 4-2-4  
 Homer W. Carhart DC/FF Award, 4-2-6  
 Intelligence Excellence, 4-2-7  
 J.O. Shiphandling, 4-2-5  
 James F. Chezek Memorial Gunnery, 4-2-2  
 Maritime Warfare, 4-1-2  
 Marjorie Sterrett Battleship Fund, 4-2-1  
 nomination procedures, 4-1-4  
 Old Crow, 4-2-3  
 Old Crows, 4-2-3  
 period of competition, 4-1-4  
 SECNAV Energy Conservation, 4-2-6  
 SECNAV Environmental Protection, 4-2-6  
 Spokane Trophy, 4-2-1  
 Superior SWO Programs Recognition, 4-2-7  
 Supply Management, 4-1-4  
 TYCOM Ship Safety, 4-2-3  
 USS Arizona Memorial Trophy, 4-2-2  
 Wellness Unit, 4-2-6

**B**

Basic Training Phase, 2-1-1  
 end-point, 2-6-1, 2-6-2  
 TSTA, 2-3-3  
 Briefings  
 safety, 3-1-4

**C**

Capping  
 M-ratings in TRMS, 5-1-4, B-1

CART, 1-1-1  
 procedures, 2-2-1  
 Resets, 5-1-2  
 CART I, 2-1-1, 2-2-1  
 FDNF ships, 2-2-3  
 CART II, 2-1-1, 2-2-2  
 FDNF ships, 2-2-3  
 New construction shakedown requirements, 2-3-2  
 pre-maintenance/deactivation, 2-2-2  
 resets, 2-2-2  
 Certifications, 2-4-1  
 required, 2-4-1  
 Command Assessments, 2-2-1  
 Commanding Officer, 1-2-1  
 responsibilities, 1-2-1  
 Communication Readiness Certification (CRC), 2-4-1,  
 E-2  
 Competitions, unit. *See* Awards  
 Crew Certification Program, 2-4-1  
 CREWCERT. *See* Crew Certification Program  
 Cruise Missile Tactical Qualification\_(CMTQ)., 2-4-2  
 Cruise Missile Tactical Qualification (CMTQ), 1-1-2\  
 CSSQT  
 missile firing equivalencies, 5-1-3

**D**

Degaussing, 5-2-7

**E**

Engineering Qualification\_(E-QUAL), 2-4-1  
 Equivalencies  
 AW firing, 5-1-3  
 CSSQT, 5-1-3  
 exercise, 5-1-2, C-1  
 USW firing, 5-1-3  
 Evaluations  
 required, 2-4-1  
 Executive Summary, 1-1-1  
 Exercise requirements, A-1  
 safety practices, A-2  
 Exercises, engineering  
 core drills, A-1  
 drill families, A-1  
 elective drills, A-1  
 satisfactory criteria, A-2

**F**

Feedback, 1-4-1  
 on formal schools requirements, 3-2-2

## COMNAVSURFLANT/PACINST 3502.2E

FEP. *See* Final Evaluation Period  
Final Evaluation Period (FEP), 1-1-2, 2-1-1, 2-2-2  
    FDNF ships, 2-2-3  
Fleet Exercise Publication, A-1  
Formal Schools  
    listing, 3-2-1  
    NEC/NOBC requirements, 3-2-1  
    SWO BST Requirements, 3-2-1  
    TADTAR resources, 3-2-1  
    TYCOM Requirements, 3-2-1, D-1  
Formal Schools Training, 2-3-1  
Forward Deployed Naval Forces (FDNF), 2-2-3, 2-3-3

### G

Glossary, E-1  
Gold Surface Warfare Excellence Pennant. *See* Awards:  
    Superior SWO Programs Recognition

### I

Immediate Superior in Command (ISIC)  
    responsibilities of, 1-2-1  
Inspections, safety, 3-1-4  
Integrated MCM Training (IMT), E-3  
Intermediate Training Phase, 2-1-1  
    guidelines, 2-7-1

### M

M-ratings  
    calculation of, 5-2-2  
    description and use, 5-2-1

### N

Naval Reserve Force (NRF) Readiness Criteria, 2-5-1  
Naval Reserve Training, 1-3-1  
    formal schools, 3-2-2  
Naval Tctical Information Compendium, A-1  
New Construction  
    CREWCERT, 2-4-1  
    Shakedown\_Requirements, 2-3-2

### O

Onboard Maintenance Training, E-4  
Operational Risk Management (ORM), 3-1-4

### P

Personnel Qualifications, 2-3-2  
    NRF ships, 1-3-1  
    program, 3-3-2

Proficiency Training, 2-1-2

### Q

Qualifications, 2-4-1  
    required, 2-4-1

### R

Repetitive Training, 2-1-2  
Reports and records, 3-1-4  
    CART, 2-2-3  
    degaussing, 5-2-7  
    FEP, 2-2-3  
    sonar contact time, 5-2-5  
    SORTS, 2-5-1, 5-1-1  
    summary, 5-3-1  
    SURFTRAMAN Feedback Report, 1-4-1  
    training M-ratings, 5-1-1, 5-2-1  
    Training Report (TRNGREP), 1-1-2, 5-1-1, 5-2-1, 5-2-3  
Resets, exercise  
    CART II, 2-2-2, 5-1-2  
    unsatisfactory repetition, 5-2-2, A-1

### S

Safety  
    briefings, 3-1-4  
    in awards, 4-1-2  
    inspections, 2-2-1  
    training, 3-3-1  
School Quota Management, 3-2-2  
Schools Master List. *See* Training Records  
Selected Reservists (SELRES), 1-3-1  
Shipboard Training Enhancement Program (STEP), E-1  
Silver Surface Warfare Pennant. *See* Awards: Superior SWO Programs Recognition  
Sonar contact time, 5-2-5  
SORTS, 2-5-1  
Specialty Training, 2-3-3  
    Amphibious Warfare, 2-3-3  
    Mine Warfare, 2-3-3  
    Salvage, 2-3-3  
Surface Force Training  
    overview, 2-1-1  
SURFTRAMAN  
    Advisories, 1-4-1  
    Feedback Report, 1-4-1

### T

Tailored Ship's Training Availability (TSTA), 2-1-1, 2-3-3

Team coordinator, 3-1-3  
 Team Leader, 3-1-3  
 Team Training  
     required, 3-2-1  
 Training  
     Damage Control, 3-2-2  
     exportable, 3-2-2  
     Firefighting, 3-2-2  
     maintenance availabilities, 2-3-1  
     pre-maintenance availabilities, 2-3-1  
     repetitive, 5-1-2  
 Training Administration, 3-3-1  
     duties and responsibilities, 3-3-1  
 Training Level Evaluation, 2-6-1  
 Training Phases, 2-1-1  
 Training Readiness Reporting  
     guidelines, 5-1-1  
 Training Records, 3-3-2  
     administratiuon and retention, 3-3-3  
     schools master list, 3-3-3  
 Training Teams, 2-3-1  
     background, 3-1-1  
     description, 3-1-2  
     evaluation mode, 3-1-2, 3-1-4  
     general purpose, 3-1-1

in overhaul, 2-3-2  
 objectives, 3-1-2  
 organization, 3-1-2  
 responsibilities, 3-1-2  
 training mode, 3-1-2, 3-1-3  
 training time outs, 3-1-2  
 Training Team Proficiency. *See* Training Level  
     Evaluation  
 TRMS, 5-1-1, 5-2-1  
 TRNGREP. *See* Reports and records  
 Trophies. *See* Awards  
 TSTA. *See* Tailored Ship's Training Availability  
 TTS Training Cycle  
     *illustrated*, 2-1-1  
 TYCOM Readiness Reporting System. *See* TRMS  
 Type Commander  
     responsibilities of, 1-2-2

**W**

Watchstander proficiency. *See* Training Level  
     Evaluation  
 Watchstander/Watch Team Training, 2-3-2  
 Websites  
     ATGLANT and ATGPAC, 2-3-3, 3-1-4

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