

APPENDIX L

MIDSHIPMAN SECOND/THIRD CLASS SURFACE CRUISE GUIDE

This booklet provides general guidelines for Midshipmen Second Class Surface Warfare Cruises. The goal of this program is to enhance the cruise experience by focusing on task completion. Second class midshipmen have already been, or will soon be, exposed to the underlying fundamentals and theory of each of these tasks. Also, prior to accomplishing each task, trainers and trainees are expected to discuss applicable underlying fundamentals and theory. This program is designed to provide midshipmen broad-based exposure to surface warfare in accordance with midshipmen summer training objectives. This is not a watchstation qualification program.

Normally, the Command Master Chief shall oversee the implementation of this program. These line items reflect the minimum that each midshipman should accomplish on cruise. All USNA and NROTC second class midshipmen will endeavor to complete this program.

This program consists of specific line items from the ESWS PQS (NAVEDTRA 43390-C) and a listing of Supplemental Line Items. Like the ESWS PQS, this program contains both 100-Level Fundamentals, which are basic items necessary for a rudimentary knowledge of the ship's mission and functions, and 300-Level Watchstations, which are watches required to be stood to take the 100-level items a step further. To reinforce the goal of this program, which is to focus on tasks, ships should make every attempt to motivate midshipman trainees to "do" the 100-Level items which the ESWS PQS only requires trainees to "discuss". Additionally, this program may be tailored to individual ships. Each ship may delete systems and equipment not installed on the ship, and add items unique to the ship.

The Trainer is designated in writing by the ship to sign off individual line items. Trainers will normally be E-5 or senior. The names of designated Trainers can be found on the ship's PQS Progress Chart. The most current Fleet references should be used in conjunction with this program.

Due to the time constraints of the four-week second class midshipman cruise, the ESWS Line Items and the Supplemental Line Items may be completed simultaneously.

ESWS LINE ITEMS

100 Level

101.3 Discuss the procedures/personnel to be notified prior to the following:

- a. Going aloft _____
- b. Working over the side _____
- c. Diving operations _____

- 101.11 Explain how a shorting probe is used to discharge capacitors. _____
- 101.19 Draw a power tool from your ship's tool issue room. _____
- 101.20 Discuss your ship's Safety Programs and the relationship between Safety Petty Officers and the Safety Officer. _____
- 101.21 Describe the Electrical Safety Program. _____
- 101.22 Describe the Heat Stress Program. _____
- 101.23 Describe the Hearing Conservation Program. _____
- 105.3 Describe the donning procedures and the methods of water entry for each of the following:
- a. CO2 inflatable life jacket _____
 - b. Inherently buoyant life preservers
 - (1) Vest type with collar _____
 - (2) Vest type, auto-inflatable _____
 - (3) Yoke type _____
- 106.3 Discuss Abandon Ship procedures, including the following:
- a. Who decides to abandon ship _____
 - b. Word to be passed _____
 - c. Actions of crew _____
 - d. Emergency destruction _____
 - e. Life boats _____
- 119.3 Discuss the duties and responsibilities of the following officer watchstations in CIC:
- a. Tactical Action Officer (TAO) _____
 - b. Weapons Liaison Officer/Ship's Weapons Coordinator (SWC) _____

- c. Gunnery Liaison Officer (GLO) _____
- d. Surface Watch Officer _____
- e. CIC Watch Officer (CICWO) _____
- f. Shipping Officer _____
- g. Radar Navigation Officer (Piloting Officer) _____

119.4 Discuss the duties and responsibilities of the following enlisted watchstations in CIC:

- a. CIC Watch Supervisor _____
- b. Surface Supervisor _____
- c. Digital dead reckoning tracer (DDRT) plotter _____
- d. Detection and Tracking Supervisor _____
- e. Air Intercept Controller (AIC) _____
- f. DRT/DDRT (North and South) _____
- g. Antisubmarine Tactical Air Controller (ASTAC) _____
- h. Electronic Warfare (EW) Supervisor _____
- i. TIC/ID Operator _____
- j. JOTC/NTCS-A Operator _____
- k. Track Supervisor (Track Sup) _____

119.17 Explain the purpose of the following:

- a. JMCIS _____
- b. NTCS-A _____
- c. LINK-4 _____
- d. LINK-11 _____
- e. LINK-14 _____
- f. LINK-16 _____

124.1 Briefly describe the general duties and responsibilities of each of the following watchstanders:

- a. Engineering Officer of the Watch (EOOW) _____
- b. Engineering Duty Officer (EDO) _____
- c. DC Control Watch _____
- d. Cold Iron Watch/In port Equipment Monitor _____
- e. Sounding and Security Watch _____
- h. Oil King _____
- i. Engine room Operator _____
- j. Ship's Service Generator (SSG)/Emergency Generator Watch

- k. Interior Communications (IC) Shop/Gyro Watch _____
- l. Propulsion and Auxiliary Control Console (PACC) Operator

- m. Electric Plant Control Console (EPCC) Operator _____
- n. Auxiliary systems monitor (ASM) _____
- o. Engine room monitor _____

300 Level

301.2.1 Review and discuss a Watch, Quarter, and Station Bill for your work center/division

301.2.3 Maintain and update PQS progress records

301.2.4 Verify the EDVR for your division

301.2.5 Observe anchoring from the bridge

- 301.2.6 Observe anchoring from the forecastle _____
- 301.2.7 Observe underway replenishment (UNREP) from bridge

- 301.2.8 Observe UNREP from UNREP station _____
- 301.2.9 Observe lowering/raising small boat with davit _____
- 301.2.10 Don an inherently buoyant life preserver _____
- 301.2.12 Locate ship's whistle, bell and gong _____
- 301.2.13 Observe breaking out ammunition _____
- 301.2.14 Observe loading gun-loading system with ammunition _____
- 301.2.15 Observe unloading and strikedown of drill ammunition from magazine and
loader/gun mount _____
- 301.2.16 Observe operation of gun system in normal mode of operation

- 301.2.17 Observe a gun shoot from the mount Captain's control
panel _____
- 301.2.18 Observe missile launcher loading and offloading (if
applicable) _____
- 301.2.19 Observe loading of a missile onto a launcher

- 301.2.20 Observe unloading of a missile from launcher _____
- 301.2.21 Observe target engagement with gun/missile fire control system from CIC

- 301.2.22 Observe target plotting during NGFS in CIC _____
- 301.2.23 Observe Harpoon/Tomahawk engagement planning and simulated launch

- 301.2.24 Observe CIWS tracking and engagement in CIC _____

- 301.2.25 Observe firing an air-slug from surface vessel torpedo tubes _____
- 301.2.26 Observe loading/unloading of torpedo tubes _____
- 301.2.27 Observe tracking and weapons engagement against actual or training target from ASWFC System _____
- 301.2.28 Observe communications with another vessel using underwater communications equipment _____
- 301.2.29 Observe an XBT deployment and environmental prediction products prepared _____
- 301.2.30 Observe a passive sonar contact and determine contact's true and relative bearing _____
- 301.2.31 Observe an actual or simulated contact on active sonar and determine the contact's range and bearing _____
- 301.2.32 Detect and track a surface contact on a radar repeater _____
- 301.2.33 Determine scopehead CPA on a radar repeater _____
- 301.2.34 Observe Overall Combat Systems Operability Test (OCSOT) from CIC _____
- 301.2.35 Solve for contact course on a maneuvering board _____
- 301.2.36 Solve for contact speed on a maneuvering board _____
- 301.2.37 Solve for contact CPA on a maneuvering board _____
- 301.2.38 Solve for contact time of CPA on a maneuvering board _____
- 301.2.39 Solve for contact target angle on a maneuvering board _____
- 301.2.40 Plot a surface contact on DRT/NC-2 plotter _____
- 301.2.41 Observe operation of electronic surveillance equipment to isolate a signal of opportunity and determine its parameters _____

- 301.2.42 Observe SRBOC loading or downloading _____
- 301.2.43 Participate in routine and emergency destruction of classified material

- 301.2.44 Participate in radio transmission (R/T) drill _____
- 301.2.45 Assist the Signaller during a flag hoist drill _____
- 301.2.48 Observe flight operations from flight deck/helo control _____
- 301.2.51 Accompany watch to ensure physical security of engineering spaces

- 301.2.52 Observe lighting-off boiler and placing on line

- 301.2.53 Observe start and idle checks of a main engine from CCS/main control room

- 301.2.56 Observe from main space the stopping, locking, unlocking and trailing shaft during
underway period _____
- 301.2.57 Observe from main space the splitting out of engineering plant _____
- 301.2.58 Observe from main space the cross-connecting of engineering plant (steam only)

- 301.2.59 Observe the balancing of electrical load distribution _____
- 301.2.60 Observe alignment, starting and securing of SSTGs/SSDG/GTG/EDG

- 301.2.61 Observe loading and unloading of generator

- 301.2.62 Observe alignment and starting of air compressors

- 301.2.63 Observe the lining up, starting and securing of steering unit

- 301.2.64 Assist damage control central watch/sounding and security watch in performance of tasks

- 301.2.65 Stand one watch as Helmsman under instruction

- 301.2.66 Stand one watch as Lee Helmsman/Ship Control Console Operator under instruction

- 301.2.68 Stand one watch as Quartermaster of the Watch (QMOW) under instruction

- 301.2.69 Observe one Special Sea and Anchor Detail from the bridge while entering or leaving port

- 301.2.70 Observe the navigation detail from the bridge while entering or leaving port

- 301.2.71 Determine relative bearing, target angle and bearing drift of a surface contact

- 301.2.72 Determine whether a meeting, crossing or overtaking situation exists

- 301.2.77 Observe an hourly weather observation

- 301.2.78 Energize and check navigation lights underway

- 301.2.79 Convert compass course to true course and vice-versa

- 301.3.1 Observe a shipboard recovery of Oscar during a man overboard drill from bridge

SUPPLEMENTAL ITEMS

1. Conduct a ship orientation tour with the Midshipman Training Officer

Operations

2. Discuss basic line handling safety _____

3. Act as a line handler during a mooring evolution _____

4. Act as a line handler during an UNREP evolution _____

5. Locate and discuss the use of all major ground tackle equipment

6. Act as a member of a boat crew _____

7. Observe well deck operations from well deck control during an amphibious vehicle launch /
recovery

8. Participate in aircraft washdown (If applicable) _____

9. Stand LSE under instruction _____

10. Don a safety harness _____

11. Complete qualification for Sound-Powered Phone Talker _____

12. Make the 12 O'clock report to the Commanding Officer _____

13. Stand two watches as a lookout under instruction _____

14. Locate all ship's compasses and discuss differences _____

15. Shoot a visual bearing and discuss visual fix techniques _____

16. Stand one watch as Boatswain Mate of the Watch (BMOW) under instruction

17. Stand one watch as Signalman under instruction _____

18. Stand one watch in CIC rotating through applicable watch stations _____

Combat Systems

19. Accompany a sonar tech on a tour of the sonar spaces _____

20. Observe the deployment / retrieval of the Tactical Towed Array Sonar (TACTAS) _____

21. Locate and operate ship's fathometer _____

22. Accompany a gunner's mate for the daily gun pre-fire checks _____

23. Accompany a gunner's mate on a tour of the armory _____

24. Accompany a gunner's mate or fire controlman on a tour of the missile magazine _____

25. Accompany a fire controlman on a tour of the fire control illuminators _____

26. Stand one watch in Combat Systems Maintenance Center (CSMC) _____

27. Stand one watch in a missile launcher and/or gun mount during GQ _____

Engineering

28. Perform the following damage control tasks:

a. Don an Emergency Escape Breathing Device (EEBD) _____

b. Don an Oxygen Breathing Apparatus (OBA) _____

c. Don a Fire Fighter's Ensemble (FFE) _____

d. Operate a Naval Fire Fighter's Thermal Imager (NFTI) _____

e. Start, run, and draw a suction on a P-250 _____

f. Start, run, and draw a suction on an installed eductor _____

g. Observe how a SEEDS is operated _____

h. Act as the nozzleman for a live hose handling exercise _____

i. Locate all installed AFFF stations _____

j. Locate and inspect all HALON protected spaces _____

k. Locate and inspect all CO2 protected spaces _____

l. Locate and inspect all Range Guard stations _____

m. Locate all Repair Lockers and discuss areas of responsibility _____

29. Discuss tagout procedures. Walk through hanging a tagout _____

30. Discuss safety precautions for working on energized gear/deranged equipment _____

31. Observe a Main Space Fire Drill from CCS and main space _____

32. Locate and discuss ship's Damage Control diagrams _____

33. Participate in Engine Room startup and shutdown in the engineering spaces _____

34. Locate where and how the ship makes water _____

35. Act as a member of the at-sea fire party during a drill _____

36. Act as a member of the repair locker party during a GQ drill _____

37. Stand two different Engine Room Operator watches under instruction _____

38. Stand one EPCC operator watch under instruction _____

39. Stand one Generator/Auxiliary Watch under instruction _____

Divisional

40. Act as compartment cleaner for one day _____

41. Act as a recorder during an XO's messing and berthing inspection _____

42. Act as a recorder during a ship's zone inspection _____

- 43. Accompany division maintenance man performing scheduled PMS maintenance for each division assigned _____
- 44. Accompany division maintenance man performing a PMS spot check for division officer for each division assigned _____
- 45. Inspect divisional spaces for improperly stowed HAZMAT _____
- 46. Inspect divisional HAZMAT locker for compliance with OPNAV 5100.19C _____
- 47. Walk through the parts ordering process with the Division Supply Petty Officer to include identifying stock number (NSN), placing order, obtaining Division Officer approval. _____
- 48. Assist the ship's Storekeeper (SK) in processing approved part request, drawing part from the applicable store room, and delivering part to customer. _____
- 49. Accompany Division Supply Petty Officer on a Servmart run _____

In port Duty

- 50. Observe the general duties and responsibilities of each of the following in port watchstanders:
 - a. Command Duty Officer (CDO) _____
 - b. Officer of the Deck (OOD) _____
 - c. Petty Officer of the Watch (EDO) _____
- 51. Observe the general duties and responsibilities of each of the duty section leaders _____
- 52. Stand one watch as Petty Officer of the Watch (POOW) under instruction _____
- 53. Stand one in port anchor watch under instruction _____
- 54. Act as a member of the SAT, BAF, or Reserve Force during a Security Alert Drill _____
- 55. Act as a member of the duty section fire party during a drill _____
- 56. Act as a food service attendant for a day to include one meal on the mess decks and one meal in the wardroom. Participate in breaking out food with food service leading petty officer,

preparation, serving, and clean-up

