NAVIGATION DIVISION PRE-UNDERWAY CHECKLIST

Commenced: 02/02/01 Date/Time of Underway: 02/09/01 0800

Perform only (*) marked items: — (emergent underway)
SDO/NAV

Perform only (+) marked items: — (in port<3days)
NAV

	Initial & Date
A. Prerequisites:	
1. ESGN 1&2 Perform start-up/check operation of ESGN IAW SSM 6-3-1E. (7 days)	N/A
B. Requirements:	
1. N.O.R.M. Article 5112 (Planned Operations Navigation Checkoff) started	* [illegible] 02/02/01
2. N.O.R.M. Article 5111 (Piloting Preparation Checkoff) started.	* [illegible] 02/02/01
3. AN/WRN-6 (GPS). Energize IAW operating instructions.	+* [illegible] 02/02/01
a. Verify current crypto is loaded.	
4. Commercial GPS (Northstar and hand held). Perform start up IAW operating instructions. (Northstar)	+* [illegible] 02/02/01
a. Verify system provides differential GPS fixes. (Northstar)	[illegible] 02/02/01
b. Verify system provides GPS fixes. (hand held)	[illegible] 02/02/01
5. AN/BPS-15 (Radar). Perform start up IAW SSM 6-3-1E.	+* [illegible] 02/02/01
a. Perform RADAR antenna MRC 4512/R11	[illegible] 02/02/01
Q-2R (Lubricate mast bearing)	[illegible] 02/02/01
Q-4R (Lubricate seal)	[illegible] 02/02/01
Q-3 (Test operate antenna assembly)	[illegible] 02/02/01
b. Perform MRC 4501/005 R-1 (SPA-25 performance test) Log completion in PMS records	[illegible] 02/02/01
c. Perform MRC 4512/R08 Q-1 (AN-BPS-15 performance test) (Ring time Rh 4050 yds. Log in RADAR log.) Log completion in PMS records	[illegible] 02/02/01
d. Secure SPA-25 and place Radar in Standby mode.	[illegible] 02/02/01
6. CAMS. Perform start up IAW SSM 6-3-10 OI	+* [illegible] 02/02/01
7. AN/WIC-2A. Perform system start up IAW SSM 6-3-11 OI 634-11 Table 1 and IC-007/109 R-2Q, W-1, R-1. (S) Log completion in PMS records	+* [illegible] 02/02/01
a. Test ship's alarms from control.	[illegible] 02/02/01
b. Test all 4MC Emergency report Stations IAW IC-007/009 Q-1. Log completion in PMS records	* [illegible] 02/02/01

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c. Test both Batteries for Operation IC-007/009/M-1. Log completion in PMS records *

8. Navigation Lights Test. (Primary and secondary power supplies and filaments) +*

9. AN/WSN-2A. Perform system start up IAW SSM 6-3-1 (FD-1D)
   a. Place system in Ref-Spd in Dock mode. *

10. Ship's Entertainment System. Test and Operate system and conduct movie inventory.

11. Portable Radar. Rig Furuno on the Bridge (if directed). Energize IAW operating instructions and test operate. +* N/A

12. Sound Powered Phones Inventory

13. Submit completed track and piloting charts to the Navigator. *

14. Subnote/MOVORD/OPAREAS plotted and independently checked by a qualified QMOW. *
    DTG 3/0033Z JAN 01

15. EM Log. Start up per SSM 6-3-1E. (Verify dista switch is on) *

16. BCP/SCP. Ensure all switches aligned correctly per SSM 6-3-7 OI 634-14A. (See addendum 1) *

17. Trim/Drain. Test operate the Trim/Drain valves from BCP per SSM 6-3-7 OI 632-15.

18. Depth Control. Test Depth Control system valves IC-023/15 Q-1. (S) Log completion in PMS records

19. Charts and Pubs. Required charts and publications corrected and up to date. Perform INFONET download. DTG 072300W *

20. Weather. Forecast screened. *

21. Piloting Party. Brief conducted for current underway. *

22. Masts and Antenna. Verify proper indications. (Coord with Auxiliary Division)

23. Bridge Bag. Verify the following material:
    a. Bridge charts
    b. Bridge notebook/scrub checklists
    c. Grease pencils (2)
    d. Lead pencils (2)
    e. Pocket whistles (2)
    f. Stop watches
    g. Tide/Current Data
    h. Bearing Circle
    i. Compass holder
    j. Rubber mallet
    k. Screwdriver
    l. Allen wrench and thread savers
    m. T-wrench
    n. Ensign (size 11)
    o. Lanyards for flags
    p. Lens paper (in zip bag)
    q. Kim Wipes (in zip bag)

r. Flashlights (night only) [illegible] 02/08/01
s. Radar reflectors [illegible] 02/08/01

24. Mk 19 Plotter. Test and operate. [illegible] 02/08/01
25. Signal Lights Test. [illegible] 02/08/01
26. Waypoints. GPS waypoints entered into military, commercial and handheld receivers. [illegible] 02/08/01
27. Rig bridge for underway including Captain's stand and windshield. * [illegible] 02/08/01
28. Test operation and all input's Operational to tactical information system. [illegible] 02/08/01
29. LPO verify watch qualification binder for the following watchstations:
    a. QMOW [illegible] 02/08/01
    b. AEF [illegible] 02/08/01
    c. Navigation Watch [illegible] 02/08/01
    d. Helmsman/Planesman [illegible] 02/08/01
    e. Lookout [illegible] 02/08/01
30. Navigation Division ready to get underway, with any exception listed below. Specifically:
    a. All Operating Space Inventory (OSI) aboard. [illegible] 02/08/01
    b. All Test Equipment on board and in calibration through 90 days. [illegible] 02/08/01
    c. All Hazardous Materials/ Atmosphere Contaminants removed or properly logged. [illegible] 02/08/01
    d. All Consumables loaded through 90-day loadout. [illegible] 02/08/01
    e. PMS schedule updated to reflect equipment pre-underway checks. [illegible] 02/08/01
    f. Any critical repair parts listed below. [illegible] 02/08/01
    g. OOC log and ESL updated. [illegible] 02/08/01
    h. Division spaces and equipment stowed for sea. Housekeeping Noise Survey Conducted and noise reduction survey report form completed and attached if deficiencies noted. [illegible] 02/08/01

OOC/Reduced Status:

Remarks/Exceptions(continue on reverse as required):

Submitted: [(b)(3)/(b)(6)] P
LPO

Recommended: [(b)(3)/(b)(6)]
ANAV

Approved: [illegible]
NAV

Noted: [illegible]
XO

BCP:

Switch	Position	Descripton	Initial/Date/Time
CKT IC	ON		[illegible] 02/08/01 1000
CKT 1LTG	ON		[illegible] 02/08/01 1000
CKT 1ML	ON		[illegible] 02/08/01 1000
CKT 2ML	ON		[illegible] 02/08/01 1000
CKT K-TD	ON		[illegible] 02/08/01 1000
CKT EH/EA	ON		[illegible] 02/08/01 1000
CKT 1TK	ON		[illegible] 02/08/01 1000
CKT TP	ON		[illegible] 02/08/01 1000
CKT 1TR	ON		[illegible] 02/08/01 1000
CKT 1VS	ON		[illegible] 02/08/01 1000
CKT 8VS	ON		[illegible] 02/08/01 1000
CTT TJ	OFF		[illegible] 02/08/01 1000
CKT 5FZ	OFF		[illegible] 02/08/01 1000
CKT HY	ON		[illegible] 02/08/01 1000
CKT MC	ON		[illegible] 02/08/01 1000
CKT SJ	ON		[illegible] 02/08/01 1000
CKT R-CS	ON	(WSN-3A IMU STOW CNTR)	[illegible] 02/08/01 1000
CKT K-HC	OFF		[illegible] 02/08/01 1000
CKT 1 HA	ON	(Hyd Acc Cont Ind Port, STBD, S&D2)	[illegible] 02/08/01 1000
CKT 1HA	ON	(Hyd Acc Cont Ind Lead, S&D1, Ext)	[illegible] 02/08/01 1000
CKT 2PG	ON		[illegible] 02/08/01 1000
CKT SN	ON		[illegible] 02/08/01 1000
CKT TQ	ON		[illegible] 02/08/01 1000
CKT R-CS	ON	(Pressure depth system)	[illegible] 02/08/01 1000
CKT R-CS	ON	(Underwater Log)	[illegible] 02/08/01 1000
CKT 1C	ON	(TLTA speed alarm)	[illegible] 02/08/01 1000
CKT K-2EA	OFF		[illegible] 02/08/01 1000
CKT C-2TK	OFF		[illegible] 02/08/01 1000
CKT K-16EH	ON		[illegible] 02/08/01 1000
CKT PSCU	ON		[illegible] 02/08/01 1000
BCP Alarm	ON	(All alarm cutout switches)	[illegible] 02/08/01 1000

SCP:

Switch	Position	Description	Init/Date/Time
CKT XNB	ON		[illegible] 02/08/01 1000
SCT K-DC	ON	(Bow ampl & trans VLV)	[illegible] 02/08/01 1000
CKT XNS	ON		[illegible] 02/08/01 1000
CKT K-DC	ON	(Stern ampl & trans VLV)	[illegible] 02/08/01 1000
CKT XN	ON		[illegible] 02/08/01 1000
CKT K-DC	ON	(Rudder amp & trans VLV)	[illegible] 02/08/01 1000
CKT 2LTG	ON		[illegible] 02/08/01 1000
CKT K-DC	ON	(Bow ampl syst)	[illegible] 02/08/01 1000
CKT K-DC	ON	(Didve stop system)	[illegible] 02/08/01 1000
CKT K-DC	ON	(Alarm buzzer system)	[illegible] 02/08/01 1000

(4)

C. Last Day Items (24 hours):

1. Radar. Ensure Radar tools are ready for use. +* [illegible] 01/01/01
2. Post and distribute Tide/Current data. * [illegible] 01/01/01
3. Post and distribute Sunrise/Set Moonrise/Set data [illegible] 01/01/01
4. Verify operation of the PMP with dockside fix. * [illegible]
5. Screen NAVAREA/HYDROLANT/BNM messages received since * [illegible]
6. Check GYRO repeater system by simultaneous reading on all gyros and repeaters. * [illegible] 020101 0504

		Readings	Error	Master
ESGN #1	225	~~225~~.2	Ø	E
ESGN #2		225.2	Ø	E2
WSN-2		225.3	.1E	E2
SCP INBD		225.4	.2E	E2
SCP OUTBD		225.4	.2E	E2
WARDROOM		225.4	.2E	E2
CO STRM		225.4	.2E	E2
FIRE CONTROL		225	.8E	E2

7. Dockside fix logged and plotted, VBE verified (both spaces), sounding taken and logged. * [illegible]
8. Test 7MC from bridge to maneuvering and control (adjust volume). Long cord JA headset rigged and tested. * [illegible]
9. Bridge Suitcase. Test operate both unit IAW SSM 6-3-10 OI 634-11 paragraph 1.3 Check helm headset. * [illegible]
10. Topside security lights/masts stowed for sea. * [illegible]
11. AN/WSN-2A. Place Auto Cal/Nav switch to Nav. [illegible] 01/01/01
12. Check Navigation Track in FCS. N/A

Remaining exceptions listed above corrected, or briefed to XO.

Submitted: [signature] DCPO Reviewed: [signature] SDO