

ANNEX 35B

SURFACE SHIP - MATERIAL STATE VERIFICATION INSPECTION (MSVI) CHECK FORM

HMS.....



Note. This check form is to be used to assist in the process of the MSVI, it should not be considered as an exhaustive list of check requirements. It is essential the latest version of the vessel's Fire Control Plan be used as the basis for the audit of equipment provision.

FIXED SYSTEMS TEST FORMS		
CHECK	✓	REASON FOR ANY DEVIATION
SYSTEM TEST FORMS (Where Applicable)		
Is system installation complete, functionally tested and operational? Systems covered are:		
HPSW (including all emergency pumps).		
APFF Systems.		
Fixed Gaseous Systems and Removal System.		
Fire Detection.		
Fire Dampers/ventilation.		
Damage Control Displays.		
CBRN Communications.		
Emergency Lighting.		
Fire Doors.		
General Firefighting.		
Breathing Air.		
FIXED SYSTEMS MAINTENANCE RECORDS - ASSURANCE OF SYSTEM MAINTENANCE		
BTM Systems (3-5942-0000)		
Is all maintenance in date? Particular attention to:		
(*) MOP 7.		
(*) MOPS 13, 20,15 and 18.		
MAN MOP 12.		
Alarm system to be tested by the Inspection Team		

FIXED SYSTEMS MAINTENANCE RECORDS - ASSURANCE OF SYSTEM MAINTENANCE (CONT'D)		
CHECK	✓	REASON FOR ANY DEVIATION
AFFF System (3-5933-0000)		
Is all maintenance in date? Particular attention to:		
(*) MOPS 10,3,4 and 13.		
MAN MOPS 6, 14 and 9.		
Gas Turbine Fixed Gaseous System (3-1127-0000) (BTM and BCF)		
Is all maintenance in date?		
MOPS 110, 111, 115 and 117.		
(*) MOPS 22, 112, 113 and 116.		
DG Fixed Gaseous System (3-5938-0000)		
Is all maintenance in date?		
MOPS 13,14,4,5,9,10,15,16,11 and 12.		
Fire Detection System		
Is all maintenance in date? Particular attention to:		
MOPS 1, 7, 8, 11.		
FIXED SYSTEMS INTEGRITY		
Hanger Spray System		
1. Is the spray operating valve (or pneumatic control) locked and the key available nearby?		
2. Is the spray system identified and operating instructions clearly displayed? (white or red)		
Fixed Firefighting Systems		
1. Are system valves, etc clearly identified?		
2. Are controls and alarms functioning correctly?		
3. Are operating instructions displayed and correct?		
4. Are keys/operating handles available at all operating positions?		
5. Where applicable, is the back-up system correct? (eg water/AFFF back-up to gas drench).		

FIXED SYSTEMS INTEGRITY (CONT'D)		
CHECK	✓	REASON FOR ANY DEVIATION
Fixed Firefighting Systems (Cont'd)		
6. In compartments fitted with CO ₂ drench, is there adequate arrangement to prevent compartment over pressurisation?		
7. Are warning signs posted at the entrance to compartments, denoting gas used? (including gas bottle stowages).		
Fire Detection System		
1. Has all maintenance been carried out?		
2. Are all maintenance records complete?		
3. Do visual and audible warning alarms operate on activation of detectors?		
Centre Feed Hose Reels (Where Fitted)		
1. Are all CFHR set up in accordance with Para 2226 ?		
2 x HPSW valves fitted:		
HPSW isolating valve pinned open.		
HPSW valve adjacent to the inductor panel shut.		
Three position selector valve set to FOAM (Mk 1) or foam/water selection lever set to FOAM (Mk 2).		
1 x HPSW isolating valve adjacent to inductor panel:		
HPSW valve adjacent to the inductor panel shut.		
Three position selector valve set to FOAM (Mk 1) or foam/water selection lever set to FOAM (Mk 2).		
Nozzle valve shut.		
1 x HPSW isolating valve not adjacent to the inductor panel (not applicable to Mk 2):		
HPSW valve pinned open.		
Three position selector valve shut.		
Nozzle valve shut.		
2. Are all CFHR hoses, nozzles and spill pick-ups in good condition?		
3. Are operating instructions displayed adjacent to each CFHR?		
4. Are shaded deck plans, indicating the compartments served, displayed adjacent to each CFHR?		

FIXED SYSTEMS INTEGRITY (CONT'D)		
CHECK	✓	REASON FOR ANY DEVIATION
BA Charging Panels (Fixed and Portable)		
1. Do the charging panels supply the correct air pressure? (up to 300 bar for EDDBA dependent on the ships HP air system pressure).		
2. Has the air been tested and is an in date air purity test certificate displayed?		
3. Are 2 sets of ear defenders and goggles available and provided with stowages at each charging panel?		
4. Is the charging hose restraining wire attached to the hose and clipped to the panel?		
5. Are operating/charging instructions clearly displayed and correct?		
6. Are the cylinder stowages used for recharging marked 'ONLY TO BE USED FOR RECHARGING CYLINDERS'?		
Portable Emergency Fire Pumps		
1. Is the full outfit of accessories held in accordance with BRd 2170(1) Chapter 27 and the pump BR?		
2. Has a functional test regularly completed?		
3. Are the pumps secured properly?		
Flight Deck Foam Monitors		
1. Are the monitors set to the automatic oscillating mode, with the nozzle centred, the correct elevation and correct spray angle?		
2. Is the system correctly set up in accordance with the operating instructions and free to travel through all operating arcs?		
3. Does the tank contain 1% AFFF to the correct level and have the correct markings displayed (capacity/duration)?		
4. Are system valves identified and operating instructions clearly displayed? (white on red)		
5. Date last tested		
6. Functional test may be required (water only).		

FIRE CONTROL PLAN		
CHECK	✓	REASON FOR ANY DEVIATION
Fire Plan		
1. Is the latest version of the Fire Plan held onboard?		
2. Is all portable and fixed equipment present in accordance with the Fire Plan ?		
3. Is the symbology clearly identified?		
PORTABLE EQUIPMENT		
Emergency Escape Breathing Device (EEBD)		
1. Check in service date (life date on label).		
2. Confirm presence of tamperproof ball on the latch fork.		
3. Check EEBD indicates correct pressure (green zone).		
4. Visually inspect for cracks, dirt and moisture.		
5. Check condition of training units.		
Breathing Apparatus (EDBA)		
1. Are BA holdings in accordance with the allowance?		
2. Are BA lockers and spare cylinder stowages sited in accordance with the Fire Plan?		
3. Are all cylinders and charging panel gauges in-date for test?		
4. Do charged spare cylinders have the connection taped over?		
5. Do all BA sets have a personal line with snap hook?		
6. Do nominated, correctly marked, BA lockers contain guidelines? (iaw BRd 2170(1) Annex 21H).		
7. Does each locker contain a pre-wear check list?		
8. Does each BA have a distress alarm fitted?		
9. Does each BA have a 'set number' tally attached?		
10. Are BA control boards, with chinagraph, stowed in nominated, correctly marked, BA lockers?		
BA Extension Equipment		
1. Are the holdings in accordance with the allowance?		
2. Are the lockers correctly stowed with one 2 m extension fitted to a rescue mask and one separate 15 m extension?		
3. Are instructions displayed on the inside of the locker door?		
4. Are the rescue masks clean and the hoses in good condition? Are the lockers portable?		

PORTABLE EQUIPMENT (CONT'D)		
CHECK	✓	REASON FOR ANY DEVIATION
HPSW Hydrants and Lay Flat Hoses		
1. Are all hoses the correct size and in good condition?		
2. Are hoses correctly stowed in twin baskets? (Outer hose rolled ready for running. Inner hose faked in basket, connected to hydrant and correct nozzle fitted). Note. <i>With the exception of LPD, HV ships are to disconnect hoses from hydrants in HV compartments and ensure the hydrant caps are fitted. (WARNING see Para 2211).</i>		
3. Are the rubber seals in all female hose connections in good condition?		
4. Are through-bulkhead connections painted red, fitted with rubber seals and blanking caps?		
5. Have redundant blanking caps been removed from hydrants which have hoses connected?		
Nozzles		
1. Do the stowages have the correct nozzles?		
2. Are all nozzles operable through the full range of travel?		
3. Are all nozzles stowed in the closed position?		
4. Are fixed hatch waterwall (FHWW) nozzles set at the correct angle, and clear of obstruction?		
5. Are all FHWW fitted with operable instantaneous blanking caps, bearing the same watertight and gastight markings as the parent hatches?		
Foam Making Equipment		
1. Are FB5X branchpipes fitted iaw Fire Control Plan?		
2. Are only Mk 2 FB5X branchpipes held and checked as follows:		
Pick-up suction holes clear?		
Rubber tubing not cracked, perished or distorted?		
Strainer clear?		
Pick-up spill connected to branchpipe?		
Foam mix selector set to 6 %?		
Non-return valve fitted in spill pick-up coupling?		

PORTABLE EQUIPMENT (CONT'D)		
CHECK	✓	REASON FOR ANY DEVIATION
Foam Making Equipment (Cont'd)		
3. Are FB10/10 branchpipes located iaw Fire Control Plan?		
Are the control vanes greased and free?		
Are they stowed under cover unless at Flying Stations?		
4. Are the caps on all AFFF drums only hand tight, with an unbroken security seal?		
5. Are the holdings of AFFF drums in accordance with the allowance and in-date for shelf life? (20 years).		
6. Are the holdings of portable inline inductors and associated 2 m hoses correct?		
7. Are inline inductors stowed adjacent to machinery spaces?		
8. Where fitted, are AFFF storage tanks marked with 20 mm white letters on a red background indicating capacity and duration of foam concentrate?		
Portable Fire Extinguishers		
1. Is the number of AFFF, dry powder and CO ₂ extinguishers in accordance with the allowances/Fire Plan?		
2. Does each extinguisher and stowage have a clearly marked, corresponding number?		
3. In compartments fitted with CO ₂ injection points, is the correct type of diffuser fitted to CO ₂ extinguishers?		
4. Are CO ₂ extinguishers and SPEs fitted with safety pins, fully charged, serviceable and in date for test?		
5. Is there adequate provision of bulk AFFF for recharging extinguishers, stored separately from AFFF drum stowages?		
6. Is the 90 ltr AFFF extinguisher unit (where fitted) serviceable with a fully charged air cylinder present?		
7. Is the Pressurex recharging cylinder in-date for test? (3-7648-0000 MOP 001 UxE 5A).		
10 kg CO ₂ Extinguisher		
1. Is the holding in accordance with the Fire Plan?		
2. Are the flexible hose, extending lance and removable discharge horn in good condition?		
3. Is the CO ₂ cylinder fully charged?		

PORTABLE EQUIPMENT (CONT'D)		
CHECK	✓	REASON FOR ANY DEVIATION
Hangar Fire Fighting Locker		
Are the contents of the locker in accordance with BRd 2170(3)? (single Spot Ships)		
Firefighters Helmets		
1. Are the holdings of helmets in accordance with the allowance and correctly stowed in identified BA lockers? (iaw BRd 2170(1)).		
2. Do the built-in radios and hand-held radios provide clear communications?		
DC&FF Equipment		
Is the equipment at the Upper Deck Re-entry Fire Party Post in accordance with BRd 2170(3) and in good condition?		
VESSEL INTEGRITY AND MARKINGS		
Smoke Management		
1. Are smoke curtains (where fitted) serviceable?		
2. Are ventilation smoke dampers effective?		
3. Are smoke clearance plans held?		
4. Are water and smoke tight glands effective?		
5. Are Ramfans fitted iaw Fire Control Plan?		
A functional test of Ramfans may be required		
Escape Routes		
1. Are all escape hatches/panels clearly identified with 'ESCAPE' on both sides and also on adjacent structure with direction arrows?		
2. Are all escape hatches/panels operable, with openings/routes free from obstruction?		
3. Are all ladders stowed correctly? (ladders that cannot remain permanently rigged are to be rolled up and secured by 5 mm polyester cord, with slip knot).		
4. Are portable wire ladders correctly fitted with hardwood rungs and securely connected to the deckhead?		
5. Are escape hatch handwheels fitted with extension bars?		
6. Are escape routes marked correctly and logically throughout the ship? ('ESCAPE' and arrow signs 1500 mm from deck and dot arrows on deck adjacent to notices).		
7. Are handwheels/operating levers and T-bar operating handles painted with photoluminescent paint?		

VESSEL INTEGRITY AND MARKINGS (CONT'D)		
CHECK	✓	REASON FOR ANY DEVIATION
Modifications		
Are there any occurrences where there appears to be unauthorised modifications to the material outfit of compartments?		
VESSEL FACILITIES		
CBRN Command and Control Facilities		
1. Are the HQ1 (and HQ2) information boards in place and in good condition?		
2. Are the Incident Boards as large as practicable and is the symbology correct?		
3. Is a full set of Kill Cards (S3021) held in HQ1?		
4. Is there a full set of validated Main Machinery Space Isolation cards available in HQ1/ SCC? Are copies held at the FRPPs? Are the cards iaw Annex 21E ?		
5. Is there a working HPSW pressure gauge for each zone?		
Alternative HQ (AHQ)		
1. Does the location give easy access to fresh air?		
2. Is a whole-ship incident board available, with a stowage and emergency lighting?		
3. Is a full set of kill cards and smoke clearance plans available?		
4. Is a HPSW system board available?		
5. Is a CBRN ventilation board available?		
6. Is a CBRN electrical information board available?		
7. Are the following communications available?		
CBRN open line to HQ1,FRPPs and Ops Room		
Green Line		
Main Broadcast		
Exchange Telephone		
Field Telephone and cable		

CHECKLIST COMPLETION BY MCTA INSPECTING OFFICER	
Signature	
Print Name	
Rank/Rate	
Post	