

ANNUAL SURVEY CHECKLIST FOR BULK CARRIER

Ship Name:

Report No.:

I.R. No.:

DOCUMENTATION
<p>APPROVED TRIM & STABILITY INFORMATION Confirmation of availability of trim and stability booklet approved by administration.</p>
<p>FIRE CONTROL PLANS Verification of proper posting of fire control plans. (including duplicate sets permanently stored in a prominently marked weather tight enclosures outside deckhouse)</p>
<p>LOADING MANUAL Verified that vessel has an approved Loading Manual.</p>
<p>LOADING INSTRUMENT Availability of an approved loading instrument together with its operational manual and verification of test cases.</p>
<p>STEERING GEAR ENTRIES REQUIRED BY SOLAS/FLAG Verification of entries made in the ship's log for departure Steering checks & Emergency Steering drills.</p>
<p>DAMAGE STABILITY Availability of damage stability information. (Note: Applicable for Cargo vessel > 80 m length after 10/07/08 and length > 100 m from 01/02/1992)</p>
<p>ESP DOCUMENT Availability of ESP documents on board.</p>
<p>STATUTORY CERTIFICATES Valid Statutory certificates available on board.</p>
<p>DAMAGE CONTROL PLANS & BOOKLET Verification that damage control plans and booklet are available (Note: Applicable for above 500 GT Dry cargo ship over 100 M in length keel laid after 01/01/1992, Dry cargo ship over 80 M in length keel laid after 01/01/1998, All cargo Ship regardless of length keel laid after 01/01/2009.)</p>
<p>MANOEUVRING BOOKLET Confirmation that the manoeuring booklet is on board and the manoeuring information is displayed on the navigation bridge.</p>
<p>CARGO SECURING MANUAL Confirmation of availability of approved cargo securing manual.</p>
<p>THE SHIP STRUCTURE ACCESS MANUAL Examining the Ship Structure Access Manual of bulk carriers of 20,000GT and over. (Constructed on or after 1st Jan. 2006)</p>
<p>CONSTRUCTION DRAWINGS MAINTAINED ON BOARD Confirmation that structural alterations performed, if any, have been approved by the classification society and reported on the as-built drawings kept on board. (Note- Applicable for ship constructed on or after 1st Jan. 2007)</p>
<p>CARGO SHIPS EXCEPT TANKERS Confirming, as far as practicable, that no changes have been made in the structural fire protection, examining</p>

Condition to be reported using number code as follows:

1. When examined found to be satisfactory and/or examined/tested satisfactory and/or confirmed arrangements exist in satisfactory condition. No repairs considered necessary this time.
2. Repairs now recommended and were carried out satisfactorily. After repairs found to be satisfactory and/or examined/ tested satisfactorily and/or confirmed arrangements exist in satisfactory condition.
3. Repairs now recommended and remain outstanding.
4. Opportunity to examine/test was not provided this time. Remains outstanding.

NA – Not Applicable.

any manual and automatic fire doors and proving their operation, testing the means of closing the main inlets and outlets of all ventilation systems and testing the means of stopping power ventilation systems from outside the space served.
<p>LOADING/UNLOADING BOOKLET</p> <p>Confirming, for bulk carriers, that the loading/unloading booklet required in SOLAS regulation VI/7 is on board.</p> <p>Confirming, for bulk carriers with restrictions imposed with respect to the carriage of cargoes with a density of 1,780 kg/m³ above, that a triangle is permanently marked at midship.</p>
<p>EMERGENCY TOWING PROCEDURES</p> <p>Confirmation that ship specific emergency towing procedures available on board.</p>
<p>COATING TECHNICAL FILE</p> <p>Confirmation that Coating filing available on board</p> <p>(Note- Applicable for Cargo ship > 500 GT Contracted date after 01/07/2008 or Keel laid after 01/01/2009 or Delivery after 01/07/2012 and for Bulk carrier Keel laid prior 1 July 1998 as per MSC 47(66))</p>
<p>OWNER'S INSPECTION AND MAINTENANCE OF CARGO HATCH COVERS</p> <p>Confirmation that vessel is provided with maintenance plan for cargo hatch covers and coamings and record maintained for the inspection, maintenance and replacement of components.</p>
<p>CLASS CERTIFICATE</p> <p>Confirmation that the Class annual/Intermediate/renewal* survey completed satisfactorily and Class Certificate endorsed/interim certificate issued* on</p>
<p>SHIP CONSTRUCTION FILE</p> <p>Confirmation that Ship Construction File is in board (For bulk carriers of 150 m and above.SOLAS Chpater II-1, Part A-1, Regulation 3-10).</p>
<p>HARMONIC DISTORTION RECORD FOR VESSEL FITTED WITH HARMONIC FILTER.</p> <p>Verification of annual measurement record of harmonic distortion level at bus bar (Applicable for vessel keel laid before 1 July 2017 and for any modification on electrical distribution system on existing vessel, total distortion measured along with equipment running at the time of measurement to be recorded)</p>
<p>OPERATIONAL MANUAL FOR EFFECT OF HARMONIC FILTER</p> <p>Verification that following document are available on board.</p> <ol style="list-style-type: none"> 1) Effect of failure on harmonic filter on electrical distribution system. 2) Permitted modes of operation for maintaining harmonic distortion level within acceptable limit during normal operation and during failure of filter. 3) Approved copy of relaxation on allowable distortion limit, if any 4) Record of harmonic distortion level measured. <p>(Note -Applicable for vessel keel laid on or after 01 July 2017 and on exiting ship retrofitted with harmonic filter on or after 01 July 2017.)</p>
<p>ALTERNATIVE DESIGN AND ARRANGEMENTS</p> <p>Confirmation that, where applicable, the approved documentation for the alternative design and arrangements is on board.</p>
WEATHER DECK
<p>FIRE DOORS AND CONTROLS</p> <p>Operation of manual/automatic fire doors, no holding back arrangements exist.</p>

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- NA – Not Applicable.

ANCHORING & MOORING EQUIPMENT Anchoring equipment & mooring equipment.
SOUNDING PIPES Sounding pipes, including self closing devices on short sounding pipes.
HATCHWAYS Examination and testing of hatchways (Access hatch) on freeboard and superstructure decks including efficient condition of closing appliances, side bow and stern doors, flush deck scuttles, ash shoots and other openings.
WEATHER DECKS Examination of weather decks, ships side plating above water line.
FREEBOARD MARKS Verification of freeboard marks.
VENTILATORS Examination and or testing of ventilators including efficiency of their closing appliances.
WINDOWS, SIDE SCUTTLES AND DEAD LIGHTS Examination and or testing of windows, side scuttles and dead lights.
SCUPPERS, SANITARY DISCHARGES, VALVES AND CONTROLS Examination scuppers and sanitary discharges and valves together with valves and their control gear.
SKYLIGHTS AND FIDDLEY OPENINGS Examination and or testing of skylights and fiddle openings including their closing appliances.
EXPOSED CASINGS, DECK HOUSES, COMPANION WAYS AND SUPERSTRUCTURES Examination and / testing of exposed casings, deck houses, companionways and superstructure bulkheads including closing appliances.
GUARD RAILS AND/OR BULWARKS Examination of the condition and arrangement, fittings & appliances for timber deck cargo.
WT BULKHEAD OPENINGS Watertight bulkheads penetrations examination as far as practicable for satisfactory condition, watertight doors in watertight bulkheads.
MASTS AND STANDING RIGGING Masts, Derricks & Crane columns including their standing rigging.
WATER TIGHT DOORS AND CONTROLS Watertight doors in Water Tight bulkheads surveyed and local/remote controls including indicating lights and alarms.
COMPANIONWAYS Verification of Companionways and posting of appropriate notices.
CLOSEUP/OVERALL EXAMINATION OF CARGO HATCH COVERS AND COAMINGS Cargo hatch covers and coamings including their closing appliances, stowage, fit including efficiency of closing in sealed condition & operation including hatch cover sets within the forward 25% of the ship's length and atleast one additional set, such that all sets on the ship are assessed at least once in every 5-year period, are to be surveyed open, closed and in operation to the full extent on each direction at each annual survey to the extent as per the requirement IRS Rules Part 1 Ch.2, Cl.2.2.2.2 to 2.2.2.7. Drainage channels and non return valves for cargo hatch to be specially examined. Above mentioned examination carried out

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- NA – Not Applicable.

for cargo hatch covers for Hold nos (1,2,3,4,5,...etc)/all.
<p>AIR PIPES</p> <p>Examination and or testing of air pipes including efficiency of their closing appliances, weld connection between Air pipes and deck plating.</p> <p>Confirmation that vents from bunker tanks and ballast tanks (with cathodic protection) are equipped with flame screens.</p>
<p>GANGWAYS & LIFELINES</p> <p>Examination of the condition and arrangement including portable fittings.</p>
<p>FREEING PORTS</p> <p>Examination of the condition and arrangement including shutters and crew protection bars.</p>
<p>MAINTENANCE, REPAIR AND PARTIAL COATING OF DEDICATED BALLAST TANKS</p> <p>Examination the maintenance, repair and partial recoating of dedicated ballast tanks and double side skin spaces, as appropriate, are recorded in the coating technical file and the maintenance of the protective coating is included in the overall ship's maintenance scheme.</p>
<p>NEW INSTALLATION OF MATERIALS CONTAINING ASBESTOS</p> <p>Confirming that new equipment containing asbestos was not fitted on board since last survey.</p>
<p>ACCESS TO AND WITHIN SPACES IN, AND FORWARD OF, THE CARGO AREA OF OIL TANKERS AND BULK CARRIERS</p> <p>Checking, when appropriate, the provision of means of access to cargo and other spaces in accordance with the arrangements in the Ship Structures Access Manual of bulk carriers of 20,000 G/T and over.</p> <p>Confirming, when appropriate and as far as is practicable when examining internal spaces on bulk carriers of 20,000 G/T and over, that the means of access to cargo and other spaces remain in good condition.</p>
<p>GANGWAY AND ACCOMODATION LADDER</p> <p>Satisfactory examination of various items pertaining to accommodation ladder, gangways, Davits, Winches.</p> <p>Verification of inspection and maintenance records.</p>
<p>INTERNAL SPACES</p> <p>Verification of the permanent means of access where appropriate of the internal spaces as far as practicable.</p>
<p>UPGRADATION / REPAIR TO COATING</p> <p>Confirmation that maintenance, repair and partial recoating had been done as per manufacturer's specification using acceptable coating system, suitable surface preparation and adequate film thickness under the supervision of coating manufacturer's representative/coating inspector. These had been verified through stage/patrol inspection during survey and considered acceptable.</p> <p>Note: Ballast tank for which coating condition was upgraded to "GOOD" this time during survey are to be listed in the "Remark" section.</p>
<p>OXYGEN AND GAS DETECTION EQUIPMENTS</p> <p>Confirmation that, when transporting a bulk cargo which is liable to emit a toxic or flammable gas, or cause oxygen depletion in the cargo space, an appropriate instrument for measuring the concentration of gas or oxygen in the air is provided. Verification that instructions for use of such equipments incl. operation by crew are available.</p>
<p>ADDITIONAL REQUIREMENTS:</p> <p>Additional Annual survey requirements for the foremost cargo hold.</p>

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- NA – Not Applicable.

VESSEL AGE OVER 10 YEARS
<p>CARGO HOLDS: Single skin/other Bulk carrier: close up survey of forward cargo hold and overall survey of all cargo holds. Double skin bulk carrier: Overall survey of two selected cargo holds. Examination of all piping and penetrations in cargo holds including overboard piping.</p>
VESSEL AGE ABOVE 15 YEARS
<p>CARGO HOLDS: Overall survey of all cargo holds, close-up examination of a selected cargo hold in addition to the forward cargo hold. All piping and penetrations in cargo holds, including overboard piping are to be examined.</p>
MACHINERY SPACES
<p>MACHINERY AND BOILER SPACES Machinery, boilers and other pressure vessels, associated piping systems and fittings are so installed and protected as to reduce to a minimum any danger to persons on board, due regard being given to moving parts, hot surfaces and other hazards.</p>
<p>FIRE/EXPLOSION HAZARDS i) Propulsion system and auxiliary machinery, boilers, all pressurized systems (steam, pneumatic, hydraulic) and their associated fittings were examined to see whether they are being properly maintained and with particular attention to the fire and explosion hazards ii) Verification that oil / water leakages, accumulation of oil, with potential source of ignition does not exist in the machinery spaces. Leakages if any have been dealt and source of leakages rectified. iii) Confirmation that floor plates & gratings are secured and found to be in order.</p>
<p>STEERING GEAR All main and auxiliary steering arrangements and their associated equipment and control systems were examined and tested. Confirmation that various alarms required for hydraulic power operated, electric and electro-hydraulic steering gears are, operating satisfactorily and that the recharging arrangements for hydraulic power operated steering gears are being maintained. Log entries made in accordance with statutory requirements were verified where applicable.</p>
<p>MEANS OF COMMUNICATTION All means of communication between the navigating bridge and the machinery control positions including engine room telegraph, as well as the bridge and the main / alternative steering position, if fitted, are tested. Where ships having emergency steering positions there are means of relaying heading information and, when appropriate, supplying visual compass readings to the emergency steering positions. Confirmation that means of indicating the angular position of the rudder are operational.</p>
<p>BOILERS AND PRESSURE VESSELS Periodical Surveys of boilers and other pressure vessels have been carried out as required by the Rules and the safety devices have been tested. External visual examination. External examination of boilers including test of safety & protective devices and test of safety valve using it's relieving gear. For exhaust gas economizers, review of engine log book to verify that Chief Engineer has tested the safety valves at sea within the window period of Annual Survey.</p>
<p>REMOTE CONTROLS Means for the operation of the main and auxiliary machinery essential for propulsion and the safety of the ship, including when applicable, the means of remotely controlling the propulsion machinery from the navigating bridge and the arrangements to operate the main and other machinery from a machinery control room.</p>

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<p>BILGE PUMPING ARRANGEMENT</p> <p>Examination of the bilge pumping systems and bilge wells including operation of each bilge pump (including hand pumps and eductors), extended spindles and level alarms, where fitted. Operational confirmation of emergency bilge suction and bilge-pumping system for each watertight compartment and drainage from enclosed cargo spaces situated on freeboard deck. Examination & test of water ingress detection alarm system for cargo holds.</p>
<p>CARGO HOLD WATER LEVEL DETECTOR</p> <p>For Single Hold Cargo Ship examining the cargo hold water level detector and its Audible and Visual alarm.</p>
<p>DANGEROUS GOODS ARRANGEMENTS</p> <p>Examining, when appropriate, the special arrangements for carrying dangerous goods, including checking the electrical equipment and wiring, the ventilation, the provision of protective clothing and portable appliances and the testing of the water supply, bilge pumping and any water spray system.</p>
<p>FIRST START ARRANGEMENT</p> <p>Operational confirmation of the means provided to bring the machinery into operation from the dead ship condition without external aid.</p>
<p>NORMAL OPERATION OF PROPULSION MACHINERY</p> <p>Confirming that the normal operation of the propulsion machinery can be sustained or restored even though one of the essential auxiliaries becomes inoperative.</p>
<p>AUTOMATION</p> <p>General Examination of automation equipment and examination, testing of the general emergency alarm system. Operation of safety devices, bilge level detection and alarm systems and control systems. Operational confirmation of the engineer's alarm that it is clearly audible in the engineer's accommodation.</p>
<p>SCHEDULE OF BATTERIES</p> <p>Schedule of batteries for essential and emergency services available on board and maintenance being done as per this schedule.</p>
<p>FORWARD SPACE / TANK BILGE PUMPING SYSTEMS</p> <p>Examination and test of the pumping systems for draining and pumping ballast tanks forward of the collision bulkhead and bilges of dry spaces any part of which extends forward of the foremost cargo hold and of their controls.</p>
<p>SEA WATER PIPE EXPANSION JOINTS</p> <p>Examining visually the condition of any expansion joints in sea water system.</p>
<p>MACHINERY SPACE VENTILLATION</p> <p>Confirmation that machinery space ventilation is in good working condition.</p>
<p>TOWING AND MOORING EQUIPMENT</p> <p>Confirming that the towing and mooring equipment is properly marked with any restriction associated with its safe operation for ships constructed after 01/01/2007.</p>
<p>MACHINERY VERIFICATION RUNS</p> <p>Towards completion of Special/Continuous Survey of Machinery, trial of main & auxiliary machinery including the steering gear & controls carried out to confirm satisfactory operation (In afloat condition).</p>
<p>SEA TRIAL</p> <p>In case of major repairs to main propulsion machinery or steering gear, confirmation that a sea trial has been carried out satisfactorily to confirm proper operation of the relevant machinery in all respects.</p>

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 3. Repairs now recommended and remain outstanding.
 4. Opportunity to examine/test was not provided this time. Remains outstanding.
- NA – Not Applicable.

ELECTRICAL INSTALLATION
<p>ELECTRICAL SYSTEM</p> <p>General examination visually and in operation, as feasible, of the main electrical machinery, the emergency sources of electrical power, the switch gear, other electrical equipment including the lighting system. The precautions provided against shock, fire and other hazards of electrical origin for proper maintenance.</p>
<p>EMERGENCY SOURCE OF POWER</p> <p>The operation of the emergency source(s) of electrical power, including their starting arrangement, the systems supplied, and when appropriate, their automatic operation as far as practicable.</p>
<p>MONITORING OF HARMONIC DISTORTATION</p> <p>Confirmation that equipment for continuous monitoring of harmonic distortion level is in good order, alarm tested, logging of measured value verified in engine log book or electronically in case where automation system fitted and found to be satisfactory.</p> <p>(Note -Applicable for vessel keel laid on or after 01 July 2017 and on exiting ship retrofitted with harmonic filter on or after 01 July 2017.)</p>
<p>PROTECTION ARRANGEMENT FOR HARMONIC FILTER</p> <p>Confirmation that protection for harmonic filter, including alarm tested and found satisfactory.</p> <p>(Note- Applicable for vessel keel laid on or after 01 July 2017 and on exiting ship retrofitted with harmonic filter on or after 01 July 2017.)</p>
ALTERNATIVE DESIGN AND ARRANGEMENT
<p>Where applicable, examination of alternative design and arrangement for machinery or electrical installations or fire safety, in accordance with the test inspection and maintenance requirements if any specified in the approved documentation is to be carried out.</p>
FIREFIGHTING/PROTECTION ARRANGEMENTS
<p>MAIN AND EMERGENCY FIRE PUMP</p> <p>Verification that each Fire pump (including starting and priming arrangements) is capable of producing the required two jets of water (whilst also permitting the simultaneous operation of foam system on tankers).</p>
<p>FIREMAINS, HYDRANTS, HOSES, NOZZLES AND APPLICATORS</p> <p>Condition of fire main (no soft patches or doublers) together with flanges and valves, hydrants, hoses, nozzles, applicators, spanners, relief valves and international shore connection.</p>
<p>READINESS OF FIRE HYDRANTS, HOSES</p> <p>Each hose complete with couplings, nozzle (dual-purpose nozzles where applicable) and tools kept ready for use.</p>
<p>PORTABLE EXTINGUISHERS AND FOAM APPLICATORS</p> <p>Confirmation that portable fire extinguishers correspond to the fire control plan w.r.t. number, type and location and that when examined were in good condition, fully charged and ready for use.</p>
<p>SPARE CHARGES</p> <p>Availability of spare charge/s for each portable extinguisher or additional portable extinguishers of the same type.</p>
<p>FIRE AND/OR SMOKE DETECTION SYSTEM</p> <p>Examine for proper functioning and possible testing as feasible any fire detection and alarm system and any sample extraction smoke detection system.</p>

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 3. Repairs now recommended and remain outstanding.
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- NA – Not Applicable.

<p>FIXED FIRE FIGHTING SYSTEM (MACHINERY SPACE, PAINT LOCKER, DEEP FAT COOKING ETC.)</p> <p>i) Examination of fixed fire fighting system controls, piping, instructions and marking. Checking for evidence of proper maintenance and servicing including date of last systems tests.</p> <p>ii) Verification with regard to correct positioning(for in service condition) of safety pins where used on cylinder head discharge valves for fixed fire fighting CO2 system are in accordance with manufacture's instruction manual.</p> <p>iii) Examination of fixed carbon dioxide fire-extinguishing systems for the protection of machinery spaces, where applicable are provided with two separate controls, one for discharging the gas from the storage container, each of them located in a release box clearly identified for the particular space.</p> <p>iv) Examining the fire-extinguishing systems for spaces containing paint and/or flammable liquids and deep-fat cooking equipment in accomadation and service spaces.</p>
<p>REMOTE STOPPING OF FANS, OIL PUMPS, ETC</p> <p>Verify that the remote controls for stopping fans and machinery and shutting off fuel supplies in machinery spaces are in working order.</p> <p>The stopping of ventilation and boiler forced and induced draft fans and the stopping of oil fuel and other pumps that discharge flammable liquids.</p>
<p>CLOSING ARRANGEMENTS FOR SKYLIGHTS, FLAPS ETC</p> <p>Examination of closing arrangements of ventilators, funnel annular spaces, skylights, doorways and tunnel where applicable, including condition of operating mechanism e.g. wire ropes, hydraulic piping etc.</p>
<p>REMOTE CLOSING OF VALVES</p> <p>Examination the arrangements for remote closing of valves for oil fuel, lubricating oil and other flammable oils and confirming, and the operation of the remote means of closing the valves on the tanks contain oil fuel, lubricating oil and other flammable oils.</p>
<p>FIREMAN'S OUTFITS & EEBDS</p> <p>Confirmation that the fire fighters' outfits including its self-contained compressed air breathing apparatus and emergency escape breathing devices (EEBDs) are complete and in good condition and that the cylinders, including the spare cylinders, of any required self-contained breathing apparatus are suitably charged and that on board means of recharging apparatus cylinders used during drills or a suitable number of spare cylinders to replace those used are provided and provision of two-way portable radiotelephone apparatus of an explosion proof type or intrinsically safe.</p>
<p>MEANS OF ESCAPE</p> <p>Confirmation that the means of escape from accommodation, machinery and other spaces are satisfactory.</p>
<p>GASEOUS FUEL FOR DOMESTIC PURPOSE</p> <p>Arrangements found in satisfactory condition.</p>
<p>CARGO SPACE</p> <p>The operation of the means of control provided for closing the various openings.</p>
<p>GENERAL</p>
<p>HOUSE KEEPING</p> <p>i)Verification that general housekeeping / cleanliness in engine room, on deck, accommodation, hospital, galley, wash basins and toilets are satisfactory.</p> <p>ii)Confirmation that no loose drums and no heavy items without securing/lashing on deck.</p> <p>iii)Confirmation that Spare anchor where provided, its lashing bracket in good condition.</p>

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 3. Repairs now recommended and remain outstanding.
 4. Opportunity to examine/test was not provided this time. Remains outstanding.
- NA – Not Applicable.

<p>FLAG SPECIFIC REQUIREMENTS Confirmation that flag specific requirements/instructions, if any are complied with. Please Provide details in Remark section.</p>
<p>H.O. INSTRUCTIONS Confirmation that H.O. Instructions pertaining to this survey if any communicated separately, have been compiled with. Please Provide details in Remark section.</p>
<p>ADDITIONAL REQUIREMENTS TOWARDS CLASS INTERMEDIATE SURVEY</p>
<p>CONTINUED COMPLIANCE WITH UR 19 Confirmation that thickness measurement and subsequent repairs/reinforcement required has been completed and vessel continues to comply with IACS UR S19 with respect to initial approval calculation/document for vertical corrugated aft transverse watertight bulkhead of fore most cargo hold for vessels subject to this requirement.</p>
<p>CONTINUED COMPLIANCE WITH UR 31 Confirmation that thickness measurement and subsequent repairs/reinforcement required has been completed and vessel continues to comply with IACS UR S31 with respect to initial approval calculation/document for side shell frames and brackets of cargo holds for vessels subject to this requirement</p>
<p>PIPING SYSTEM (This section is applicable where the intermediate survey is equivalent to the previous special survey) Examination of all piping systems within Cargo Holds, Ballast Tanks incl. Double Bottom tanks, Fuel Oil Tanks, Pipe tunnels, Cofferdams and Void Spaces bounding cargo holds and operational testing to working pressure to confirm that the tightness and condition are satisfactory.</p>
<p>CLOSE-UP/OVERALL EXAMINATION OF CARGO HATCH COVERS AND COAMINGS INCL. OPERATION OF HATCH COVERS (This section is applicable where the intermediate survey is equivalent to the previous special survey) i) Examination of all cargo hatch covers and coamings including their closing appliances, stowage, fit & operation (IRS Rules) for satisfactory condition. ii) Confirmation that all mechanically operated hatch covers have been checked for operation and effectiveness of sealing arrangement and found to be satisfactory. iii) Verification for continued compliance with IACS UR S30 for Cargo Hatch cover securing arrangements and stoppers for bulk carriers constructed before 1st January 2004 and not built in accordance with UR S21 (for No.1 and No.2 Cargo Hold Hatch).</p>
<p>WATER LEVEL DETECTION AND ALARM SYSTEM (This section is applicable where the intermediate survey is equivalent to the previous special survey) For ships complying with the requirements of SOLAS XII/12 for hold, ballast and dry space, confirmation that examination and a test, of the water level detection system and their alarms carried out and found to be satisfactory.</p>
<p>ADDITIONAL REQUIREMENTS TOWARDS SPECIAL SURVEY</p>
<p>CLOSE-UP/OVERALL EXAMINATION OF CARGO HATCH COVERS AND COAMINGS INCL. OPERATION OF HATCH COVERS i) Examination of all cargo hatch covers and coamings including their closing appliances, stowage, fit & operation (IRS Rules) for satisfactory condition. ii) Confirmation that all mechanically operated hatch covers have been checked for operation and effectiveness of sealing arrangement and found to be satisfactory.</p>

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 4. Opportunity to examine/test was not provided this time. Remains outstanding.
- NA – Not Applicable.

iii) Verification for continued compliance with IACS UR S30 for Cargo Hatch cover securing arrangements and stoppers for bulk carriers constructed before 1st January 2004 and not built in accordance with UR S21 (for No.1 and No.2 Cargo Hold Hatch).

CONTINUED COMPLIANCE WITH UR 19

Confirmation that thickness measurement and subsequent repairs/reinforcement required has been completed and vessel continues to comply with IACS UR S19 with respect to initial approval calculation/document for vertical corrugated aft transverse watertight bulkhead of fore most cargo hold for vessels subject to this requirement.

CONTINUED COMPLIANCE WITH UR 31

Confirmation that thickness measurement and subsequent repairs/reinforcement required has been completed and vessel continues to comply with IACS UR S31 with respect to initial approval calculation/document for side shell frames and brackets of cargo hold for vessels subject to this requirement

MOORING ROPES AND TOW LINES

Confirmation that sufficient mooring ropes and tow lines as required by rules are provided onboard.

AIR PIPES

Internal Examination of Automatic air pipe heads as required by IRS Rules, to confirm these are maintained in satisfactory condition.

LONGITUDINAL STRENGTH EVALUATION FOR CSR BULK CARRIERS

(This section is applicable for CSR Bulk Carriers and during special surveys carried out after the ship reached 15 years of age or during the special survey No.3, if this is carried out before the ship reaches 15 years).

Confirmation that the ship's longitudinal strength evaluated by using the thickness of structural members measured, renewed and reinforced, as appropriate, in accordance with the criteria for longitudinal strength of the ship's hull girder for CSR bulk carriers was considered acceptable.

(The final result of evaluation of the ship's longitudinal strength required above after renewal or reinforcement work of structural members, if carried out as a result of initial evaluation, is to be reported as a part of the Executive Hull Summary.)

MEANS OF EMBARKATION AND DISEMBARKATION

Confirmation that accommodation ladders, gangways and its winches incl. brake system operationally tested with specified maximum operation load in accordance with IRS and found to be satisfactory.

WATER LEVEL DETECTION AND ALARM SYSTEM

For ships complying with the requirements of SOLAS XII/12 for hold, ballast and dry space water level detectors, an examination and a test of the water ingress detection systems and of their alarms to confirm these are in satisfactory condition.

PIPING SYSTEM

Examination of all piping systems within Cargo Holds, Ballast Tanks incl. Double Bottom tanks, Fuel Oil Tanks, Pipe tunnels, Cofferdams and Void Spaces bounding cargo holds and operational testing to working pressure to confirm that the tightness and condition are satisfactory.

Condition to be reported using number code as follows:

1. When examined found to be satisfactory and/or examined/tested satisfactory and/or confirmed arrangements exist in satisfactory condition. No repairs considered necessary this time.
2. Repairs now recommended and were carried out satisfactorily. After repairs found to be satisfactory and/or examined/ tested satisfactorily and/or confirmed arrangements exist in satisfactory condition.
3. Repairs now recommended and remain outstanding.
4. Opportunity to examine/test was not provided this time. Remains outstanding.

NA – Not Applicable.

GUIDENCE NOTES

1. **APPROVED TRIM & STABILITY INFORMATION:-** SOLAS 88 Amend / II-1 / Reg. 22.
2. **FIRE CONTROL PLANS:** - SOLAS Ch. II-2, Reg. 15, part E, Cl. 2.4
3. **STEERING GEAR ENTRIES REQUIRED BY SOLAS:** - SOLAS 99/00 Amend / V / Reg. 26
4. **DAMAGE STABILITY:** - SOLAS Ch. II Part B-1 reg 25.1
5. **DAMAGE CONTROL PLANS:** - SOLAS 88/90 Amend / II-1 / Reg. 22-1
6. **MANOEUVRING BOOKLET:** - SOLAS 81 Amend / II-1 / Reg. 28
7. **CARGO SECURING MANUAL:** - SOLAS 01-03 Amend / VI / Reg. 5
8. **THE SHIP STRUCTURE ACCESS MANUAL:** - SOLAS 05 Amend / II-1 / Reg. 3-6
9. **CONSTRUCTION DRAWINGS MAINTAINED ON BOARD:** - SOLAS 05 Amend / II-1 / Reg. 3-7
10. **LOADING/UNLOADING BOOKLET:** - SOLAS 96-98 Amend / XII / Reg. 8
11. **CARGO SHIPS EXCEPT TANKERS:** - SOLAS 99/00 Amend / II-2 / Reg. 9.2.3
12. **TOWING AND MOORING EQUIPMENT :** - SOLAS 05 Amend / II-1 / Reg. 3-8
13. **CORROSION PREVENTION OF SEAWATER BALLAST TANKS:** - SOLAS 05 Amend / II-1 / Reg. 3-2
14. **ACCESS TO AND WITHIN SPACES IN, AND FORWARD OF, THE CARGO AREA OF OIL TANKERS AND BULK CARRIERS:** - SOLAS 05 Amend / II-1 / Reg. 3-6
15. **NEW INSTALLATION OF MATERIALS CONTAINING ASBESTOS:-** SOLAS 05 Amend / II-1 / Reg. 3-5

Condition to be reported using number code as follows:

1. When examined found to be satisfactory and/or examined/tested satisfactory and/or confirmed arrangements exist in satisfactory condition. No repairs considered necessary this time.
 2. Repairs now recommended and were carried out satisfactorily. After repairs found to be satisfactory and/or examined/ tested satisfactorily and/or confirmed arrangements exist in satisfactory condition.
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