

ANNUAL SURVEY CHECKLIST FOR CHEMICAL TANKER

Ship Name:

Report No.:

I.R. No.:

DOCUMENTATION

STATUTORY CERTIFICATES

Valid Statutory certificates available on board.

APPROVED TRIM & STABILITY INFORMATION

Confirmation of availability of trim and stability booklet approved by administration.
IRS Rules, Part 3, Ch.1, Cl. 1.4

LOADING INSTRUMENT

Availability of an approved loading instrument together with it's operational manual and verification of test cases (IRS Rules, Part 3, Ch. 5, Cl. 1.3)

Manoeuvring booklet

Confirming that the manoeuvring booklet is on board and that the manoeuvring information is displayed on the navigating bridge

FIRE CONTROL PLANS

Verification of proper posting of fire control plans (including duplicate sets permanently stored in a prominently marked weathertight enclosures outside deckhouse

STEERING GEAR ENTRIES REQUIRED BY SOLAS/FLAG

Verification of entries made in the ship's log for departure.

DAMAGE STABILITY

Availability of damage stability information (Cargo vessel > 80 m length after 10/07/08 and length > 100 m from 01/02/1992)

LOADING MANUAL

Verified that vessel has an approved Loading Manual. (IRS Rules, Part 3, Ch. 5, Cl. 1.3)

I.G. SYSTEM OPERATIONAL MANUAL

Verification for availability of I.G. Instruction manual(operation, maintenance, safety, health hazard etc.)

ESP DOCUMENT

Availability of ESP documents on board

THE SHIP STRUCTURE ACCESS MANUAL

Checking the Ship Structure Access Manual of oil tankers of 500 G/T and over. (500 GT and over, constructed on or after 1st Jan. 2006)

CONSTRUCTION DRAWINGS MAINTAINED ON BOARD

Confirming that structural alterations performed, if any, have been approved by the classification society and reported on the as-built drawings kept on board(constructed

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

on or after 1 st Jan. 2007)
<p>NATIONAL REQUIREMENTS / CODE</p> <p>Availability of applicable code (IBC-for ships whose keel was laid on or after 01-06-1986 / BC Code for ships built before 01-06-1986 but after 31-12-1976) or National Requirements and Material Safety Data sheets for the carriage of cargoes</p>
<p>P & A MANUAL</p> <p>Verified that vessel has an approved P & A Manual.</p>
<p>EMERGENCY TOWING PROCEDURES</p> <p>Confirm that ship specific emergency towing procedures available on board.</p>
<p>FOR VESSELS SUBJECT TO IMO PSPC</p> <p>Confirmation that the maintenance, repair and partial recoating of dedicated ballast tanks and double side skin spaces, as appropriate, are recorded in the coating technical file.</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>WEATHER DECK</p>
<p>ACCOMMODATION, SERVICE, MACHINERY SPACES & WHEELHOUSES</p> <p>Verification gas tight condition of wheelhouse doors and windows, fixed type side scuttles and windows in superstructure and deckhouse ends facing the cargo area and containing accommodation, service, machinery and control spaces and gas tight bulkhead penetrations.</p>
<p>CARGO TANK OPENINGS</p> <p>Examination of cargo tank openings including gaskets, covers, coamings and flame screens.</p>
<p>BUNKER TANKS</p> <p>Examination of flame screens on vents to all bunker tanks.</p>
<p>CARGO & PROCESS PIPING AND FITTINGS</p> <p>Verification for condition of cargo, bunker, ballast and vent piping system including vent masts and headers and protective screens along with associated expansion arrangements and identification / markings on cargo and process piping and valves. The verification to include condition of removable pipe lengths/other approved equipment necessary for cargo operation</p>
<p>CARGO TANK VENTING ARRANGEMENT</p> <p>Verification of cargo tank venting arrangements. Where controlled tank venting system is employed such verification to include pressure / vacuum valves, mast raisers, devices to prevent passage of flames into the cargo tanks and cargo tanks gas freeing arrangements (on ships constructed on or after 01-07-2002 the controlled venting system should consist of a primary and a secondary means).</p>
<p>EMERGENCY TOWING ARRANGEMENT</p>

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Verification of ETA for condition and operational readiness
FIRE DOORS AND CONTROLS Operation of manual/automatic fire doors, no holding back arrangements exist
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 on freeboard and superstructure decks including efficient condition of closing appliances
WEATHER DECKS Examination of weather decks, ships side plating above waterline
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, flush deck scuttles, ash shoots & other openings
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 fiddley 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, openings on freeboard & superstructure decks
GUARD RAILS AND/OR BULWARKS Examination of the condition and arrangement
WT BULKHEAD OPENINGS Watertight bulkheads penetrations examination as far as practicable for satisfactory condition
MASTS AND STANDING RIGGING

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Masts, Derricks & Crane columns including their standing rigging
CARGO HATCH COVERS AND COAMINGS Cargo hatch covers and coamings including their closing devices, stowage, fit & operation including gaskets and flame screens
COMPANIONWAYS Verification of Companionways and posting of appropriate notices.
PRESSURE GUAGES, PUMPS Verification that installed pressure gauges on cargo discharge lines including those fitted outside the cargo pump room & level indicating systems are operational. Verification that pumps, valves and pipelines are identified and distinctively marked
AIR PIPES Examination and or testing of air pipes including efficiency of their closing appliances, weld connection between Air pipes and deck plating. Confirmation that vents from bunker tanks and ballast tanks (with cathodic protection) are equipped with flame screens.
SAFE ACCESS TO BOW Verification of arrangements of safe access to bow and the paint applied should be of anti-slip type.
GANGWAYS, LIFELINES AND ACCOMODATION LADDER Satisfactory examination of various items pertaining to accommodation ladder, gangways, Davits, Winches. Verification of inspection and maintenance records. (IRS Rules Part 1 Ch.2, Cl.3.2.2.9 to 3.2.2.13)
Towing and mooring equipment 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
New installation of materials containing asbestos Confirming that new equipment containing asbestos was not fitted on board since last survey.
INTERNAL SPACES Verification of the permanent means of access where appropriate of the internal spaces as far as practicable. (IRS Rules Part 1 Ch.2, Cl 4.2.2.14)
UPGRADATION / REPAIR TO COATING 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. Note: Ballast tank for which coating condition was upgraded to "GOOD" this time during survey are to be listed in the "Remark" section.
FREEING PORTS

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Examination of the condition and arrangement including shutters and crew protection bars
<p>Close up examination of the Hatch Covers and coamings</p> <p>Close up examination of the Hatch Covers and coamings</p>
MACHINERY SPACES
<p>MACHINERY AND BOILER SPACES</p> <p>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</p> <p>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</p> <p>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.</p> <p>iii) Confirmation that floor plates & gratings are secured and found to be in order.</p>
<p>STEERING GEAR</p> <p>All main and auxiliary steering arrangements and their associated equipment and control systems were examined and tested. Steering chains are verified for wear and tear and it was ensured wear is within 12% of the original rule diameter. 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. Confirm the requisite arrangements to regain steering capability in the event of the prescribed single failure are being maintained. Floor to be anti skid and guard rails.</p>
<p>MEANS OF COMMUNICATION</p> <p>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 is operational</p>
<p>BOILERS AND PRESSURE VESSELS</p> <p>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 economisers, 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</p> <p>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</p>

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and other machinery from a machinery control room
<p>PROPULSION MACHINERY</p> <p>Confirmation that normal operation of the propulsion machinery can be sustained or restored even though one of the essential auxiliaries becomes inoperative.</p>
<p>Sea Water Pipe Expansion Joints</p> <p><i>Examining visually the condition of any expansion joints in sea water system.</i></p>
<p>CARGO PUMPS, PRESSURE GUAGES, VALVES</p> <p>Examination of cargo, bilge, ballast, stripping pumps for excessive gland seal leakage. Verification that installed pressure gauges on cargo discharge lines including those fitted outside the cargo pump room and level indicating systems are operational, verification that pumps, valves and pipelines are identified and distinctively marked</p>
<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 & random test of water ingress detection alarm system for cargo holds (SOLAS Ch. XII Reg. 12)</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>AUTOMATION</p> <p>General Examination of automation equipment. 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>MACHINERY SPACE VENTILLATION</p> <p>Confirmation that machinery space ventilation is in good working condition.</p>
<p>EXAMINATION</p> <p>Examination of cargo, bilge, ballast and stripping pumps for excessive gland seal leakage, verification of proper operation of electrical and mechanical remote operating and shutdown devices and remote operation of pump room bilge system, and checking that pump foundations are intact.</p>
<p>CARGO DISCHARGE LINES</p> <p>Verification that installed pressure gauges on cargo discharge lines including those fitted outside the cargo pump room and level indicating systems are operational, verification that pumps, valves and pipelines are identified and distinctively marked.</p>
<p>MACHINERY VERIFICATION RUNS</p>

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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).
SEA TRIAL 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.
ELECTRICAL INSTALLATION
EMERGENCY SOURCE OF POWER 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, verification that all electrical equipments in dangerous zones is in good condition.
ELECTRICAL SYSTEM 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
FIREFIGHTING/PROTECTION ARRANGEMENTS
MAIN AND EMERGENCY FIRE PUMP 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)
FIREMAINS, HYDRANTS, HOSES, NOZZLES AND APPLICATORS 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
READINESS OF FIRE HYDRANTS, HOSES Each hose complete with couplings, nozzle (dual-purpose nozzles where applicable) and tools kept ready for use
PORTABLE EXTINGUISHERS AND FOAM APPLICATORS 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, confirming the condition of portable fire fighting equipment for the cargoes to be carried in the cargo area is satisfactory.
SPARE CHARGES Availability of spare charge/s for each portable extinguisher or additional portable extinguishers of the same type
FIRE AND/OR SMOKE DETECTION SYSTEM Examine for proper functioning and possible testing
DECK FOAM SYSTEM Verify that the deck foam system and deck sprinkler system was in good operating condition, check for

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adequate supply of Foam concentrate, testing that minimum number of jets of water at the required pressure in the fire main is obtained when the system is in operation. Examination of deck foam system for cargo area.
<p>FIXED FIRE FIGHTING SYSTEM</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, Fixed fire fighting system for cargo pump room</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>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>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 eg: wire ropes, hydraulic piping etc</p>
<p>SYSTEMS AND CIRCUITS</p> <p>Confirm that the intrinsically safe systems and circuits used for measurement, monitoring, control and communication purposes in all hazardous locations are being properly maintained.</p>
<p>EXAMINATION</p> <p>Examination of the fire extinguishing systems for spaces containing paint and/or flammable liquids and deep fat cooking equipment in accommodation and service spaces, examination of fire safety requirements of any helicopter facilities</p>
<p>GASEOUS FUEL FOR DOMESTIC PURPOSE</p> <p>Arrangements found in satisfactory condition.</p>
<p>FIREMAN'S OUTFITS</p> <p>Verify that Fireman's outfits are complete and in good condition</p>
<p>FIRE DOORS</p> <p>Examination of any manual and automatic fire doors and proving their operations</p>
<p>MEANS OF ESCAPE</p> <p>Confirmation that the means of escape from accommodation, machinery and other spaces are satisfactory</p>
<p>PUMP ROOM VENTILATION</p> <p>Verification that the pump room ventilation system is operational, ducting intact, dampers operational and screens clear</p>
<p>EXTERNAL EXAMINATION OF PIPING AND CUT-OUTS</p> <p>Examine for satisfactory condition of piping and cut out valves of cargo tank and cargo pump room fixed fire fighting</p>
<p>POTENTIAL SOURCES OF IGNITION</p> <p>Confirm that potential sources of ignition in or near the cargo pump room are eliminated, such as loose gear, combustible materials etc, there are no signs of undue leakage and access ladders are in satisfactory condition.</p>

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<p>CONTINUOUS MONITORING</p> <p>Confirming that the system for continuous monitoring of the concentration of flammable vapours is satisfactory. (IRS Rules Part 1 Ch.2, Cl 4.2.4.1 u)</p>
<p>SAMPLING POINTS OR DETECTOR HEADS</p> <p>Confirming that sampling points or detector heads are located in suitable positions in order that potentially dangerous leakages are readily detected. (IRS Rules Part 1 Ch.2, Cl 4.2.4.1 v)</p>
<p align="center">CARGO PUMP ROOM / OTHER CARGO HANDLING SPACES</p>
<p>ACCESS LADDERS AND RESCUE ARRANGEMENTS</p> <p>Verification of cargo pump room access ladders, railings and permanent rescue arrangements</p>
<p>CARGO PUMP ROOM VENTILATION, CLEANLINESS Etc</p> <p>Examination of cargo pump room(s) spaces for freeness from potential sources of ignition; operation of the ventilation system (damper operation and flame screens) including interlocking arrangement to lighting</p> <p>Verification that no oil leakages and no accumulation of oil in the cargo pump room. Leakages if any have been dealt and source of leakages rectified.</p>
<p>CARGO PUMP ROOM DRAINAGE ARRANGEMENT</p> <p>Verification of cargo pump room bilge system operable from outside the cargo pump rooms</p>
<p>PUMP ROOM BULKHEAD AND PIPE TUNNEL IF FITED</p> <p>Examinations of all pump room bulkheads for signs of chemical leakage or fractures, the sealing arrangements of all penetrations of pump room bulkheads. Examination of condition of all piping systems.</p>
<p align="center">CARGO HANDLING / CARGO CONTROL ROOMS</p>
<p>CARGO TANK GAUGING SYSTEM</p> <p>Verification of cargo tank level gauges, high level alarms and automatic high-liquid-level shut-off system</p>
<p align="center">SAFETY ARRANGEMENTS RELATED TO CARGO</p>
<p>EXAMINATION</p> <p>Examinations of gauging devices, high level alarms, valves associated with overflow control. Examination of cargo heating/cooling system sampling arrangements where fitted. Examination of the cargo transfer arrangements and confirming that any hoses are suitable for their intended purpose</p>
<p>VERIFICATION</p> <p>Verification of temperature devices and alarms, removable pipe lengths or other approved equipment necessary for cargo separation. Verification that the ventilation system including portable equipment is operational. Verification that arrangements are made for sufficient inert/padding/drying gas to be carried to compensate for normal losses and that means are provided for monitoring of ullage spaces. Verification that arrangements are made for sufficient medium to be carried where drying agents are used on air inlets to cargo tanks</p>
<p align="center">GENERAL</p>
<p>HOUSE KEEPING</p> <p>i) Verification that general housekeeping / cleanliness in engine room, pump room, on deck, accommodation, hospital, galley, wash basins and toilets are satisfactory.</p>

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- ii)Confirmation that no loose drums and no heavy items without securing/lashing on deck.
iii)Confirmation that Spare anchor where provided, its lashing bracket in good condition.

FLAG SPECIFIC REQUIREMENTS

Confirmation that flag specific requirements/instructions, if any are complied with.
Please Provide details in Remark section.

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.

GUIDANCE 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. **Manoeuvring Booklet:** - SOLAS 81 Amend / II-1 / Reg. 28
6. **The Ship Structure Access Manual:** - SOLAS 05 Amend / II-1 / Reg. 3-6
7. **Construction drawings maintained on board:** - SOLAS 05 Amend / II-1 / Reg. 3-7
8. **Loading/unloading booklet:** - SOLAS 96-98 Amend / XII / Reg. 8
9. **Towing and mooring equipment :** - SOLAS 05 Amend / II-1 / Reg. 3-8
10. **Corrosion prevention of seawater ballast tanks:** - SOLAS 05 Amend / II-1 / Reg. 3-2
11. **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
12. **NEW INSTALLATION OF MATERIALS CONTAINING ASBESTOS:-** SOLAS 05 Amend / II-1 / Reg. 3-5

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