Part C

Survey Questionnaire

Reefer Ship

Ship name:	
IMO No:	
Date survey completed:	
Survey port:	
Surveyor's name:	
Survey company:	
Surveyor's ref. number:	
Order club:	
Club ref. no.:	

5. Survey Questionnaire - Reefer Ship

5.1 Cargo holds and cooler spaces

		Y	N	NA	NI	Remarks
5.1.1	Are spaces clean and free from mould and taint / smell from previous cargoes?	◯	◯	◯	◯	
5.1.2	Are spaces underneath gratings clean and free from debris or previous cargoes?	◯	◯	◯	◯	
5.1.3	Is there a system in place for regular cleaning of these spaces and appropriate records maintained?	◯	◯	◯	◯	
5.1.4	Is an adequate quantity of cargo hold cleaning chemicals kept onboard?	◯	◯	◯	◯	
5.1.5	Are the cargo holds free of snagging hazards which may damage cargo and its packaging?	◯	◯	◯	◯	
5.1.6	Are spar deck planks, hatch gratings and supports in apparent satisfactory condition, level and secure?	◯	◯	◯	◯	
5.1.7	Are hatch gratings close fitting and free from any significant gaps?	◯	◯	◯	◯	
5.1.8	Are sufficient spare gratings, spar deck planks and supports, as appropriate, available on board?	◯	◯	◯	◯	
5.1.9	If appropriate, are walking boards used during cargo operations?	◯	◯	◯	◯	
5.1.10	Are preventative measures, such as warning signage, in place to prevent food and glass items being taken into the cargo holds?	◯	◯	◯	◯	

		Y	N	NA	NI	Remarks
5.1.11	If fitted, are side shorings (boards and side battens) in apparent satisfactory condition and free from wear or damage?	◯	◯	◯	◯	
5.1.12	Is the condition of pipework, where visible (cooling, defrosting, air, sounding, bunker, ballast , etc), lagging and protection guards in cargo spaces in apparent satisfactory condition?	◯	◯	◯	◯	
5.1.13	Are the fresh air and circulation fans operational and in apparent satisfactory condition?	◯	◯	◯	◯	
5.1.14	Is the cargo hold lighting free from damage and in apparent satisfactory condition?	◯	◯	◯	◯	
5.1.15	Are cargo space separations (tween deck hatches, doors, etc. if relevant) adequate for intended cargoes?	◯	◯	◯	◯	
5.1.16	Are cargo holds insulation, including tank top, lining and thermal seals in apparent satisfactory condition?	◯	◯	◯	◯	
5.1.17	Are ventilation ducts, gratings and closing devices in apparent satisfactory condition?	◯	◯	◯	◯	
5.1.18	Are bilges clean, non-return valves working and bilge pumps in apparent satisfactory condition?	◯	◯	◯	◯	
5.1.19	Is the tween deck drainage system clean, dry and in apparent satisfactory condition?	◯	◯	◯	◯	
5.1.20	If fitted, are cargo hold locked-in alarms functioning correctly and tested regularly?	◯	◯	◯	◯	

Additional information

5.2 Cargo systems

		Y	N	NA	NI	Remarks
5.2.1	Are defrosting facilities in apparent satisfactory condition?	◯	◯	◯	◯	
5.2.2	Are fixed / portable temperature sensors calibrated and in apparent satisfactory condition?	◯	◯	◯	◯	
5.2.3	Are spare temperature sensors available on board?	◯	◯	◯	◯	
5.2.4	Are the delivery and return air sensors regularly tested?	◯	◯	◯	◯	
5.2.5	Is the refrigeration system apparently free of refrigerant leakage?	◯	◯	◯	◯	
5.2.6	Is sufficient spare refrigerant available for a 50% charge?	◯	◯	◯	◯	
5.2.7	If brine is used as a refrigerant, is there sufficient spare Calcium Chloride onboard for a complete change of brine?	◯	◯	◯	◯	
5.2.8	If a controlled atmosphere system is fitted, is the gas generating plant operational and apparently well maintained?	◯	◯	◯	◯	
5.2.9	If a controlled atmosphere system is fitted, are procedures in place to prevent the unauthorised access of personnel into the cargo spaces when an unsafe atmosphere exists?	◯	◯	◯	◯	

		Y	N	NA	NI	Remarks
5.2.10	Is all reefer machinery and auxiliary equipment in apparent satisfactory condition?	◯	◯	◯	◯	
5.2.11	Are full load tests regularly carried out on reefer compressors?	◯	◯	◯	◯	
5.2.12	Are all auxiliary engines / generators in apparent satisfactory condition and capable of achieving the full power rating?	◯	◯	◯	◯	

Additional information

5.3 Lifting appliances

		Y	N	NA	NI	Remarks
5.3.1	Are cranes / derricks in apparent satisfactory structural condition?	◯	◯	◯	◯	
5.3.2	Is SWL clearly marked on crane / derrick jib and loose gear?	◯	◯	◯	◯	
5.3.3	Are crane wires and sheaves in apparent satisfactory condition?	◯	◯	◯	◯	
5.3.4	Are crane / derrick safety devices apparently operational and regularly tested?	◯	◯	◯	◯	
5.3.5	Is slew bearing wear being regularly monitored, eg by grease sampling or rocking test?	◯	◯	◯	◯	
5.3.6	Are the holding down bolts and slewing ring apparently free of significant corrosion?	◯	◯	◯	◯	

		Y	N	NA	NI	Remarks
5.3.7	Is loose gear apparently free from excessive wear and corrosion?	◯	◯	◯	◯	
5.3.8	Are crane / derrick electrical / hydraulic systems free from apparent defects?	◯	◯	◯	◯	
5.3.9	Are crane access ladders and platforms in apparent satisfactory condition and allow for safe access?	◯	◯	◯	◯	
5.3.10	Are lifting appliance maintenance records kept?	◯	◯	◯	◯	

Additional information

5.4 Hatch covers and other closing appliances

		Y	N	NA	NI	Remarks
5.4.1	Are hull openings and closing appliances, where applicable, in apparent satisfactory condition?	◯	◯	◯	◯	
5.4.2	Are all cargo hatch covers and coamings, including landing pads, in apparent satisfactory condition?	◯	◯	◯	◯	
5.4.3	Confirm no apparent indications of water or oil leaks in the cargo holds?	◯	◯	◯	◯	
5.4.4	Are access hatches and coamings in apparent satisfactory condition?	◯	◯	◯	◯	
5.4.5	Are hatch cover panels apparently correctly aligned?	◯	◯	◯	◯	

		Y	N	NA	NI	Remarks
5.4.6	Are compression bars, landing pads, cleats and cross joint wedges in apparent satisfactory condition and properly adjusted?	◯	◯	◯	◯	
5.4.7	Are rubber gaskets in good condition? Are any repairs correctly performed (paying particular attention to corner pieces)?	◯	◯	◯	◯	
5.4.8	Are side and cross joint drain channels and non-return devices in apparent satisfactory condition?	◯	◯	◯	◯	
5.4.9	Can hatch covers be closed / opened without undue delay?	◯	◯	◯	◯	
5.4.10	Is chain pull / hydraulic system in apparent satisfactory condition and free from any signs of corrosion and leakage?	◯	◯	◯	◯	
5.4.11	Are hatch cover hinges in apparent satisfactory condition?	◯	◯	◯	◯	
5.4.12	Can main and access hatch covers be safely secured in the open position?	◯	◯	◯	◯	
5.4.13	Are all tween deck covers in apparent satisfactory condition?	◯	◯	◯	◯	
5.4.14	Are the tween deck hydraulic hoses and pipes in apparent satisfactory condition?	◯	◯	◯	◯	
5.4.15	Are safety barriers fitted around open tween decks?	◯	◯	◯	◯	

		Y	N	NA	NI	Remarks
5.4.16	Is a Hatch Cover Manual on board and in a language understood by the crew? State hatch cover manufacturer.	◯	◯	◯	◯	

Additional information

5.5 Cargo securing

		Y	N	NA	NI	Remarks
5.5.1	Are fixed lashing points in apparent satisfactory condition and free from excessive wear / corrosion? (eg twist lock sockets, D-rings)	◯	◯	◯	◯	
5.5.2	Is loose lashing and securing equipment including twist locks in apparent satisfactory condition and free of excessive wear / corrosion?	◯	◯	◯	◯	
5.5.3	Are sufficient numbers of loose lashing and securing equipment provided?	◯	◯	◯	◯	
5.5.4	Are the twist locks and lashing equipment of the same type as specified in the approved Cargo Securing Manual?	◯	◯	◯	◯	
5.5.5	Are lashing maintenance records satisfactorily maintained?	◯	◯	◯	◯	
5.5.6	If applicable, are the T-bars and air bags in apparent satisfactory condition?	◯	◯	◯	◯	

Additional information

5.6 Documentation and procedures

		Y	N	NA	NI	Remarks
5.6.1	Are carriage instructions for the intended cargo provided and followed?	◯	◯	◯	◯	
5.6.2	Are hold temperatures / CO_2 / O_2 levels, as appropriate, properly recorded and records retained?	◯	◯	◯	◯	
5.6.3	Are reefer plant logs satisfactorily maintained?	◯	◯	◯	◯	
5.6.4	Is there a record of temperature probe and gas analyser calibrations?	◯	◯	◯	◯	
5.6.5	If appropriate, does the vessel maintain a log of pulp temperatures during loading operations?	◯	◯	◯	◯	
5.6.6	Is the manufacturer's manual of the reefer plant onboard in a language understood by ship staff?	◯	◯	◯	◯	
5.6.7	Is the data logger, if fitted, in working order?	◯	◯	◯	◯	

Additional information

5.7 Safety and Operational test (were the following tests carried out and found satisfactory?)

		Y	N	NA	NI	Remarks
5.7.1	Engine room bilge high level alarms	◯	◯	◯	◯	
5.7.2	Emergency fire pump with two fire hoses on separate hydrants	◯	◯	◯	◯	
5.7.3	Emergency power sources and emergency lighting	◯	◯	◯	◯	
5.7.4	Engine room remote stops and shutdowns	◯	◯	◯	◯	
5.7.5	Tightness tests of hatch covers and other relevant closing appliances	◯	◯	◯	◯	
5.7.6	Cargo hold bilge suction test	◯	◯	◯	◯	
5.7.7	Cargo hold high level alarms	◯	◯	◯	◯	
5.7.8	Hydro test of ballast spaces surrounding the cargo area	◯	◯	◯	◯	
5.7.9	Ice test to be carried out on all vessel's hand-held temperature probes	◯	◯	◯	◯	

Additional information