

# Green Award Foundation

Westerkade 7B | 3016 CL ROTTERDAM | The Netherlands | [www.greenaward.org](http://www.greenaward.org)

## Annex 3c: Green Award Requirements (LNG carrier) Version 2019

Checklists for Office Audits and Ship Surveys

Effective as of 1 April 2019



## Annex 3c: Green Award Requirements (LNG carrier)



### LNG carriers

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#### Legend for Checklists

0	Indicates which crew/employee may be interviewed/questioned.
	Shows that a certain item is complied.
	Shows that a certain item is not complied.
0	Indicates that an alternative is used, hence the score for that item is a "0".
	The checklist was filled in incorrectly, thus shows "error".
0	Indicates that the whole element did not reach the minimum score, hence a finding is issued. The number shows the scores obtained.
	Shows which elements are minimum = maximum. Hence scores on all items is required to fully comply.
	Indicates that the minimum score for the relevant element is "0", hence a finding will not be issued.

\* for detailed interpretations of the colours and the usage of the checklist, please refer to the pdf-file named "Instruction Notes" located on [www.greenaward.org](http://www.greenaward.org) under "Certification/Download".


#### Revision codes


- RN Item/question is renumbered
- RR Rating score of item/question is changed
- N New item or question
- D Item/question is deleted
- M Text of item/question is modified


## **APPENDIX 1**


CHECKLIST - BASIC CRITERIA - OFFICE AUDIT -  
LNG CARRIER


(LMC-06)

CHECKLIST - BASIC CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2019																									
Revision Code	Norm item	 <div style="border: 1px solid black; padding: 10px; text-align: center; margin-top: 10px;"> <h1 style="margin: 0;">BASIC</h1> <h2 style="margin: 0;">Office - LNG</h2> </div>	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	IT DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE		
			<b>100</b>	<b>MANAGEMENT ELEMENTS</b>																					
<b>101</b>	<b>GENERAL</b>				o		o		o		o		o		o				o		o				
101.1	Are the Management System (MS) Manuals maintained and updated?																								
<b>102</b>	<b>SAFETY AND ENVIRONMENTAL PROTECTION POLICY</b>				o		o		o		o		o		o										
102.1	Is a company policy concerning safety and the environment and which is signed by the Man. Dir., available?																								
102.2	Are objectives concerning safety and the environment described?																								
102.3	Is this policy maintained and implemented at all shore-based levels as well as all ship-based levels ?																								
<b>103</b>	<b>COMPANY RESPONSIBILITIES AND AUTHORITY</b>				o		o		o		o		o		o				o		o				
103.1	Is the entity who is responsible for the operations of the ship clearly defined ? (Owner or entity)																								
103.2	Are shore-ship communications, defined levels of authority and lines of communication documented and working effectively ?																								
103.3	Are responsibilities and authorities of all office personnel clearly defined ?																								
103.4	Is the designated person provided with shore-based support and adequate resources?																								
<b>104</b>	<b>DESIGNATED PERSONS</b>		o		o																				
104.1	Is/are (a) designated person(s) assigned in the office?																								
104.3	Is objective evidence available that the safety and environmental aspects of the operation of each ship is monitored and that the required adequate resources and shore-based support is applied?																								
<b>105</b>	<b>MASTER'S RESPONSIBILITY AND AUTHORITY</b>				o		o		o		o		o		o						o				
105.1	Is the responsibility of the master clearly defined and documented?																								
105.6	Does the company have the overriding authority of the master clearly defined? (ISM Code 2002 5.2)																								
105.7	Are master's reviews reported and evaluated?																								

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				<b>106</b>	<b>RESOURCES AND PERSONNEL AND STCW</b>			o						o											
	106.1	Does the company have a procedure to verify the integrity of the sea staff certification and medical fitness before being assigned to the ship?																							
	106.2	Have the owners/managers established/documented policies concerning shore/ship personnel?																							
	106.3	Has the level of competency been defined and documented for office personnel performing functions pertinent to safety and the environment?																							
	106.4	Do arrangements include a provision for masters and officers to receive an adequate introduction and continuous update of the company's safety and environmental system?																							
	106.5	Do arrangements include training and an introduction to the quality system for the executive management ?																							
	106.6	Do office personnel receive training/courses with regard to the ISM Code and are they consistent with the MS manuals?																							
	106.7	Are records of this training/courses available?																							
	106.8	Are internal audits held on board the ships?																							
	106.9	Is standard composition of crew documented in company policy?																							
	106.10	Is personnel promotion policy (ship & office) documented in company procedures?																							
	106.11	Is the working language between the office and the vessels defined?																							
	106.12	Are all senior and deck officers conversant with the English language for maritime communication?																							
	106.13	Are operational instructions on board written in a language understood by officers and shipboard personnel?																							
	106.14	Is the working language monitored and checked by the ship's staff and verified during internal audits?																							
	106.17	Is the Master of a vessel fully conversant with the Company's Management Systems?																							
	<b>107</b>	<b>DEVELOPMENT OF PLANS FOR SHIPBOARD OPERATIONS</b>			o		o		o		o		o		o						o				
	107.1	Does the company have procedures for the preparation of plans and instructions for key shipboard operations concerning safety of the ship and prevention of pollution?																							
	107.3	Are tasks, qualifications and responsibilities defined in the manuals and in the job descriptions?																							
	<b>108</b>	<b>EMERGENCY PREPAREDNESS</b>	o		o		o		o		o		o		o					o		o			
	108.1	Does the system cover the arrangements needed to ensure that the company, day and night, is prepared to respond effectively to hazards, accidents or emergencies involving their ships?																							
	108.2	Are tasks, qualifications and responsibilities described in the manuals and in the job descriptions?																							
	108.3	Is communication with media included in the emergency procedures?																							
	108.4	Are procedures for an "Emergency room" in the office defined?																							

CHECKLIST - BASIC CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2019																								
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				<b>109</b>	<b>REPORTS AND ANALYSES OF NON-CONFORMITIES, ACCIDENTS AND HAZARDOUS OCCURENCES</b>			o		o		o		o		o		o						
	109.1	Are safety and environmental inspections carried out, documented and reported?																						
	109.2	Does the company have instructions/procedures for the reporting of non-conformities/ near misses?																						
	109.3	Are non-conformities, accidents and hazardous occurrences reported to the office?																						
	109.4	Are corrective and/or preventive actions taken ?																						
	109.5	Does the company have objective evidence to show their support of the shipboard personnel in reporting of non-conformities / near misses?																						
	<b>110</b>	<b>MAINTENANCE OF THE SHIP AND EQUIPMENT</b>			o		o		o															
	110.1	Are ship inspections held at defined intervals? (minimum of twice a year or equivalent)																						
	110.2	Are non-conformities reported including their possible cause?																						
	110.3	Is appropriate corrective action taken?																						
	110.4	Are records of these activities maintained?																						
	110.5	Does the MS require ship-critical equipment and systems to be identified?																						
	110.6	Does the MS provide for specific measures aimed at promoting the reliability of ship-critical equipment and systems?																						
	<b>111</b>	<b>DOCUMENTATION</b>			o																			
	111.1	Does the company have procedures to control documents and data relevant to the Man.System?																						
	111.2	Are valid documents available at all relevant locations?																						
	111.3	Are changes to documents reviewed and approved by authorised personnel?																						
	111.4	Are obsolete documents removed promptly?																						
	<b>112</b>	<b>COMPANY VERIFICATION, REVIEW AND EVALUATION</b>	o		o		o		o		o		o		o		o		o		o			
	112.1	Are internal audits carried out to verify whether safety and pollution-prevention activities, and other procedures, comply with the Management System (MS)?																						
	112.2	Does the company periodically evaluate the efficiency of the MS and review the MS, in accordance with procedures established by the company, when necessary?																						
	112.3	Is a management review done?																						
	112.4	Are the results of audits and reviews brought to the attention of all personnel having responsibility in the area involved?																						
	112.5	Have the management personnel, responsible for the area involved, taken timely corrective actions on deficiencies found?																						

CHECKLIST - BASIC CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2019																								
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					<b>IMO ELEMENTS</b>																			
	<b>200</b>	<b>SOLAS 1974</b>																						
	<b>201</b>	<b>SOLAS, General Provisions</b>					o		o															
	201.1	Compliance with General Provisions																						
	201.2	Compliance with IGC Code																						
	<b>212</b>	<b>SOLAS Certificates</b>					o		o															
	212.1	Is an overview of the valid certificates per ship available and is the overview updated?																						
	<b>217</b>	<b>Safety of Navigation / SOLAS chart carriage requirements</b>							o				o											
		<b>ECDIS (Compulsory carriage of ECDIS)</b>																						
	217.1	If carriage of ECDIS is compulsory, is it a company policy for the ECDIS to be type-approved according to Res A 817(19) as amended by MSC 64 (67) and MSC 86 (70) or MSC.232(82)?																						
	217.3	Is it a company policy that an acceptable back-up arrangement is in place? (an independent type-approved ECDIS with an independent position fixing system using official Electronic Navigational Charts (or a combination of official ENCs and Raster Navigational Charts) or a full / reduced folio of up-to-date paper charts, as relevant to the ship's voyage)																						
		<b>Training &amp; Onboard Use of ECDIS (Compulsory carriage of ECDIS)</b>																						
	217.5	Is it a company policy that all officers and masters that use ECDIS for primary navigation are to complete generic training based on IMO model course 1.27 and, in addition, are familiarized with the ECDIS unit(s) installed onboard?																						
	217.7	Is it a company policy that a risk assessment is carried out for the operation of ECDIS which identifies and controls the hazards when using ENCs and (if used) when ECDIS is in RCDS mode?																						
	217.9	Is the risk assessment and relevant onboard procedures + instructions reviewed on a regular basis (at least once a year or if circumstances require a review) ?																						
	<b>218</b>	<b>Noise Levels On Board Ships</b>																						
		<i>(Only applicable to new ships of a gross tonnage of 1,600 and above.)</i>																						
	218.1	Is it company policy that the ships are surveyed for the measurement of noise level and the results recorded in the noise survey report in accordance with the Res MSC.337(91)?																						
	218.2	Is it company policy to identify areas of the vessels based on the noise levels and to place relevant visible warning notices at the entrance to these areas? (IMO noise symbols)																						

CHECKLIST - BASIC CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2019																								
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			<b>300</b>	<b>MARPOL 73/78</b>																				
<b>301</b>	<b>Provisions concerning Reports on Incidents Involving Harmful Substances (Protocol 1)</b>			o					o				o											
<b>301.1</b>	Does the company have a procedure in order to report an incident to the nearest coastal state in the event of the ship being abandoned or if a report from the ship is incomplete or unobtainable?																							
<b>310</b>	<b>Prevention of pollution by oil</b>			o					o				o											
<b>310.1</b>	Is a shipboard oil pollution emergency plan developed?																							
<b>310.3</b>	Is training and testing of the oil pollution emergency plan done?																							
<b>310.4</b>	Is the plan reviewed? (periodic and event review)																							
<b>310.5</b>	Is an updated list of persons to be contacted available? (coastal States, port contacts, company interest contacts)																							
<b>310.6</b>	Is office personnel familiar with the shipboard oil pollution emergency plan?																							
<b>310.7</b>	Does the company have a policy concerning the retention and disposal of oil residues (sludge)?																							
<b>350</b>	<b>Prevention of pollution by garbage</b>			o		o			o															
<b>350.2</b>	Has the company developed a ship specific garbage management plan taking into account the number of people onboard, size/type and the trade area of the ship?																							
<b>350.4</b>	Is it a company policy to designate a person responsible for execution of the garbage management onboard?																							





## **APPENDIX 2**


CHECKLIST - RANKING CRITERIA - OFFICE AUDIT -  
LNG CARRIER


(LMC-07)


## CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2019

Revision Code	Norm Item	 <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h2 style="margin: 0;">RANKING</h2> <h3 style="margin: 0;">Office - LNG</h3> </div>	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	IT DEPT.	Doc. & Impl.	INS-/CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE	
			<b>1000</b>	<b>GENERAL</b>																						
<b>1100</b>	<b>Data Monitoring and Recording Equipment</b>		<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>																				0	10
1100.1	Is it company policy that the vessels constructed before 01/07/2002 are equipped with a "full" VDR?																								0	10
1100.2	Is it a company policy that the vessels are equipped with a CCTV system, which has cameras located in <u>open deck spaces</u> ?																								0	5
1100.6	Is it a company policy that the vessels are equipped with a CCTV system, which has cameras located in <u>engine room</u> ?																								0	5
1100.7	Is it a company policy that the vessels are equipped with a CCTV system, which has cameras located in <u>cargo spaces</u> ?																								0	5
1100.3	Is it company policy that the CCTV footage is recorded by VDR or backed-up by alternative means (minimum of 12 hours)?																								0	10
<b>Total score</b>																							0	35		
<b>Minimum ranking score required for element 1100 = 0</b>																										
<b>1200</b>	<b>Enclosed Space Entry &amp; Hot Work</b>		<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>																					
1200.1	Is there an Enclosed Space Entry and Hot Work permit to work system, taking account of IMO and industry guidelines and where relevant local port / terminal requirements?																								0	10
1200.6	Is company approval of the Hot Work permit required before work can begin?																								0	10
1200.7	Is an evaluation of the Hot Work permit made (permit shows the appropriate safety precautions relevant to the location of work)?																								0	20
1200.12	Is the HSQ Manager designated to authorise hot work?																								0	20
1200.2	Is crew on board provided with suitable personal protective equipment and suitable equipment for testing the atmosphere of an enclosed space? (e.g. breathing apparatus, protective clothing and approved + calibrated atmosphere testing equipment)																								0	5
1200.8	Are all personnel entering an enclosed space provided with a personal gas detector which can measure HC, oxygen and relevant toxic vapours?																								0	10
1200.9	Is it company policy that a safety meeting, attended by all personnel involved, is held prior to entering the space or commencement of hot work in order to review procedures and PPE (including those specific for the intended work) ?																								0	10
1200.10	Does the company require a responsible officer to be designated for all aspects of the operation?																								0	5
1200.3	Is ship's crew trained and drilled periodically according to enclosed space entry procedures ?																								0	5
1200.4	Does training also include rescue and first aid?																								0	5
1200.5	Is there a procedure to identify the operational spaces (e.g. side-passages or compressor rooms) which need to be subjected to enclosed space entry procedures?																								0	10
<b>Total score</b>																							0	110		
<b>Minimum ranking score required for element 1200 = 110</b>																										


CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2019																											
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				<b>1300</b>	<b>Compressor for the refilling of air cylinders for breathing apparatus or Alternative</b> , Additional Green Award requirement					0		0															
	1300.1	Is it company policy that the vessels have a compressor for the refilling of air cylinders for breathing apparatus?																								0	20
	1300.2	<b>Alternative to 1300.1:</b> sufficient number of air cylinders for the sole purpose of safety drills.																								0	10
<b>Total score</b>																							0	20			
<b>Minimum ranking score required for element 1300 = 10</b>																											
	<b>1400</b>	<b>Control of drugs &amp; alcohol onboard</b>									0																
M/RR	1400.2	Are all seafarers subject to an unannounced alcohol testing on board as initiated by the office? (Approved test equipment to be available on board)																								0	10
M/RR	1400.1	Are all seafarers subject to shore-based drug and alcohol testing at least once in last 12 months?																								0	5
N	1400.5	Are all fleet vessels subject to unannounced drug and alcohol testing at least once in 12 months by an external organisation?																								0	5
N	1400.6	<b>Alternative to 1400.1 &amp; 1400.5:</b> In case crew members are not subject to shore-based drug and alcohol testing at least once in last 12 months, are all fleet vessels subject to unannounced drug and alcohol testing at least twice in 12 months by an external organisation?																								0	10
N	1400.7	Does the company contract an external drug and alcohol test organization to monitor fleet vessels for next due vessel tests such that the organization can appropriately decide themselves location and date of attendance?																								0	15
<b>Total score</b>																							0	35			
<b>Minimum ranking score required for element 1400 = 20</b>																											
	<b>1500</b>	<b>Emergency Response System</b>							0																		
	1500.1	Is there a policy for implementation of an ERS for the LNG fleet? (an internal response system or an external service from an IACS class member)																								0	10
	1500.2	Are documents, procedures and instructions available?																								0	10
	1500.3	Are at least two of the emergency response team (ERT) members familiar with the ERS procedures?																								0	10
	1500.4	Are company vessels in receipt of an evaluation report of an annual drill between company, ERS service provider (class) and a company vessel ?																								0	10
	1500.5	Is an annual ERT drill performed at the office which includes participation by the ERS service provider (class) and one company vessel ?																								0	15
	1500.9	Is an updated list of national & local authorities, as required in the SOPEP & the emergency response plan, available in the office ?																								0	10
	1500.10	Do relevant ERT member(s) participate in an ERS training course as provided by the ERS service provider (class) ?																								0	10
<b>Total score</b>																							0	75			
<b>Minimum ranking score required for element 1500 = 55</b>																											


CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2019																												
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			1600	<b>Computer Systems, Networks, Data Security and Training.</b> GA requirement				0														0						
1600.1	Are arrangements for shore and vessel systems documented ? (configuration scheme)																									0	10	
1600.2	Are adequate system back-up's for office administrative PC systems made (where applicable) and are procedures for this documented ?																									0	5	
1600.7	Is there a policy that system back-ups for vessel computer-based systems are made (where applicable)?																									0	5	
1600.8	Is there a policy that system back-ups for vessel administrative PC systems are made?																									0	5	
1600.3	Is training provided at a level required to effectively operate and maintain the system and cover normal, abnormal and emergency conditions?																									0	10	
1600.4	Is the internal audit scheme applicable to the IT department?																									0	10	
1600.5	Are computer systems, in relation to IMO MSC/Circ.891, certified by a recognised organisation?																									0	10	
1600.6	Is a system administrator designated for administrative PC systems in the office ?																									0	10	
																										0	65	
																										Minimum ranking score required for element 1600 = 40		
N	1610	<b>Cyber Risk Management</b>																										
N	1610.1	Does the company have plans and procedures of cyber risk management (cyber risk policy) in place?																									0	10
N	1610.2	Does the company incorporate the cyber risk policy in its Safety Management System (SMS) developed under the ISM code?																									0	20
N	1610.3	Does the cyber risk policy differentiate between IT (information technology) and OT (operational technology) systems?																									0	5
N	1610.4	Does the cyber risk policy focus on elements such as third-party access and bring your own device (BYOD) in the office?																									0	5
N	1610.5	Does the company designate and train personnel as appropriate to identify and respond to cyber threats to the company's information technology systems?																									0	5
N	1610.6	Does the company have a policy in place to build new ships equipped with cyber secure systems and components?																									0	5
																										0	50	
																										Minimum ranking score required for element 1610 = 30		

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			GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.			FINANCIAL DEPT.	Doc. & Impl.	IT DEPT.	Doc. & Impl.	INS-/CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE	
1700	<b>Noise and Vibration Management</b>																									
	<b>Noise/Vibration Monitoring and Measures</b>																									
1700.1	Is it company policy to verify the noise survey report every 5 years?																							0	15	
1700.2	Is it company policy that the crew entering spaces where noise levels exceed 85db(a) should wear hearing protectors which meet the requirements of the HML(High-Medium-Low) method (ISO 4869-2:1994)?																							0	5	
1700.3	Is it company policy to periodically inspect the noise and vibration of all machinery equipment and rectify any abnormalities?																							0	5	
1700.4	Is it company policy to take appropriate measures in order to protect the crew from cargo handling equipment noise if it exceeds 85db(a) (by taking into account technical solutions and/or exposure limits)?																							0	10	
	<b>Noise Mitigation and Health Hazards</b>																									
1700.5	Does the SMS include the following? 1.Hearing protection; 2.Exposure limits; 3.Training regarding noise and health hazards.																							0	5	
1700.6	Does the company provide the crew with a hearing conservation programme which includes the following: 1.Hazards of high and long duration of noise exposure; 2.Maintenance of audiometric test records; 3.Periodic analysis of records and hearing acuity of individuals with high hearing loss.																							0	5	
1700.7	Does the company assess the risks associated with distractions to onboard operations, communication and rest hours caused by exposure to high levels of noise?																							0	10	
1700.8	Is it company policy to determine the noise exposure level of each rating/officer by taking into account the job profile, time spent by each crew member in different work spaces? (ISO 9612:2009 procedure)																							0	10	
			<b>Total score</b>																			0	65			
			<b>Minimum ranking score required for element 1700 = 25</b>																							


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				<b>1710</b>	<b>Underwater Noise and Vibration Management</b>																						
	1710.1	Is it company practice to design a newbuild ship in such a manner to attenuate/reduce underwater noise?																								0	10
M	1710.2	Does the company take any of the following measures to reduce underwater noise and vibration: 1.Installation of state of art propellers (With reduced cavitation); 2.Wake conditioning devices; 3.Installation of air injection propeller; 4.Vibration isolators mounted on the diesel generators; 5. Installation of propeller boss cap with fins; 6. Others = *fill during audit*?																								0	10
		If others =	*fill during audit*?																								
	1710.3	Does the company take any additional maintenance routines (e.g. polishing/coating) to reduce cavitation from the propeller?																								0	5
	1710.4	Does the company opt for re-routing or slow steaming where possible and practicable to protect whale sensitive areas?																								0	5
			<b>Total score</b>																				0	30			
			Minimum ranking score required for element 1710 = 0																								
	<b>2000</b>	<b>NAVIGATION / BRIDGE OPERATIONS</b>																									
	<b>2100</b>	<b>Navigation</b>																									
	2100.6	Does the company have a contract for automatic supply of new hydrographic publications?																								0	10
	2100.7	Does the company have a contract for electronic update of hydrographic publications? (eg. Temporary and Preliminary NtM)																								0	10
	2100.8	Is it a company policy to include navigational equipment in electronic Planned Maintenance System?																								0	10
	2100.9	Are masters entitled to use non-compulsory pilot services? (must be stated in a company procedure)																								0	10
	2100.12	Is the company aware of the vessel's critical areas transiting?																								0	10
	2100.13	Does the company use weather routing services for ships on long haul voyages?																								0	10
	2100.18	Is it a company policy to enroll the vessels in a meteorological & oceanographic service in a form of a software application?																								0	10
	2100.19	<b>Alternative to 2100.18:</b> Do the vessels have a capability to receive comprehensive weather information from the office or from coastal stations / platforms?																								0	5
	2100.14	Does the company have instructions for navigating in sensitive areas? (IMO SN/Circulars)																								0	10
	2100.15	Is it a company policy to equip vessels with the multi constellation GNSS receivers?																								0	10
	2100.16	Is it a company policy to equip vessels with the eLoran receivers?																								0	10
	2100.17	Is it a company policy that the position for all stages of voyage is compared with a different method of positioning than GPS?																								0	20
			<b>Total score</b>																				0	120			
			Minimum ranking score required for element 2100 = 50																								


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2111	<b>Electronic chart display &amp; information systems / ECDIS</b>																									
	<b>Applicable to the companies with ships for which carriage of ECDIS is compulsory</b>																									
2111.3	Does the company provide navigational procedures concerning the use of ECDIS?																							0	10	
2111.4	Is it a company policy to list ECDIS as critical equipment and integrate into PMS? (hardware and software)																							0	5	
2111.5	Is it a company policy that ECDIS is tested according to IHO ECDIS data presentation and performance check with a use of test data set after every update of the software (including back up)?																							0	5	
2111.6	Is it a company policy that regardless of the generic training the crew is familiarised with the ECDIS unit(s) installed onboard according to the Industry Recommendations for ECDIS Familiarisation?																							0	15	
2111.7	Is it a company policy to provide structured ECDIS training(s) for all officers on top of the generic training (besides the familiarization onboard in R2111.6)?																							0	5	
2111.8	Does the company have a contract / agreement with ECDIS manufacturer in relation to the maintenance of the software?																							0	5	
2111.11	Does the company have a standard for display settings (layers) of ECDIS for various navigation conditions (arrival / departure - coastal - deep sea)?																							0	5	
2111.12	Is it a company policy that the vessels have a basic folio of paper charts (in case second ECDIS is a back up system)?																							0	10	
																								0	60	
			<b>Minimum ranking score required for element 2111 = 35</b>																							
2120	<b>Fuel Change Over / Ballast Water Exchange</b>			0					0					0												
2120.1	Is it company policy that the voyage plan (checklist) include when fuel change over <u>should</u> be carried out?																							0	10	
2120.2	Is it company policy that the voyage plan (checklist) include when ballast water exchange <u>can</u> be carried out?																							0	10	
																								0	20	
			<b>Minimum ranking score required for element 2120 = 20</b>																							


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			2300	<b>Mooring Operations</b>								0														
2300.1	Does the company have procedures/instructions for mooring/unmooring operations?																								0	10
<b>Total score</b>																							0	10		
<b>Minimum ranking score required for element 2300 = 10</b>																										
3000	<b>MACHINERY / ENGINE OPERATIONS</b>																									
3100	<b>Bunker Operations</b>					0							0													
3100.1	Does the company MS specify a safe-maximum percentage fill for bunker tanks? (max. limit 95%)																								0	10
3100.2	Is a checklist used for bunker operations (company format) ?																								0	10
3100.3	Does the bunker procedure include a bunker plan (company format) ?																								0	10
3100.4	Are there procedures/instructions for the internal transfer of fuel oil between main storage tanks?																								0	10
3100.5	Is there an instruction that all persons involved are to be familiar with the intended bunker operation and/or internal transfer operation and their duties?																								0	10
<b>Total score</b>																							0	50		
<b>Minimum ranking score required for element 3100 = 50</b>																										
3200	<b>Fuel Oil Testing, Bunker Alerts &amp; Marpol Bunkering Requirements &amp; Additional Green Award requirements</b>					0							0													
3200.1	Is it company procedure that bunkered fuel oil is always tested (before use onboard) by a recognised fuel analysis organisation ashore according to the latest edition of ISO 8217 ?																								0	40
3200.5	Are global bunker quality alerts received onboard from company fleet experience and from the fuel analysis organisation ?																								0	10
3200.13	Is an evaluation of all fuel oil suppliers carried out and are the negative results brought to the attention of the charterer?																								0	10
3200.8	Is support given by the office to the vessels in obtaining Bunker Delivery Notes for every fuel delivery as required by MARPOL Annex VI ?																								0	10
3200.9	Are all fuel sample bottles (Marpol and quality test sample) to be stored in an appropriate location sheltered from elevated temperatures ?																								0	5
3200.10	Is a documentary record system for bunker samples and related bunker delivery notes implemented onboard company ships ?																								0	5
3200.11	Is it company policy that fuel oil sampling is carried out in accordance with the latest edition of Gibraltar Port Authority Bunkering Code of Practice and Marpol Annex VI ?																								0	10
<b>Total score</b>																							0	90		
<b>Minimum ranking score required for element 3200 = 70</b>																										





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4000	<b>CARGOES / CARGO OPERATIONS</b>																																									
4100	<b>LNG Carrier Cargo Operations &amp; Additional Green Award requirements</b>																																									
4100.1	Is it company procedure that the ship shore safety checklist has to be used before loading/unloading operations?																								0	10																
4100.2	Does the company have instructions regarding access on board of unauthorised persons?																									0	10															
4100.3	Does the company have instructions for smoking areas on board?																									0	10															
4100.4	Does the company have procedures/instructions in relation to the entire cargo tank operations?																									0	10															
4100.7	Are there procedures to ensure that a sufficient number of personnel is available in case of emergency during port stay?																									0	10															
4100.17	Is it company policy that CTS documents are taken before commencing and after completion of cargo operations?																									0	10															
																							<b>Total score</b>		0	60																
																							Minimum ranking score required for element 4100 = 60																			
4200	<b>Ship to Ship Transfer Operations</b>																																									
4200.5	Is it company policy to verify with the STS-operator that approved equipment is used for the intended STS operation?																									0	40															
																							<b>Total score</b>		0	40																
																							Minimum ranking score required for element 4200 = 40																			


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			<b>5000</b>	<b>PREVENTION OF POLLUTION</b>																							
<b>5200</b>	<b>Waste Management / Garbage Handling Onboard</b>			o		o		o																			
5200.14	Is it a company policy to perform a risk assessment before drafting Garbage Management Plan?																								0	10	
5200.15	Is it a company policy that the personnel responsible for collection, storage, processing and disposal of garbage is designated and familiarized?																									0	5
5200.16	Does the company provide training/education programme for the crew in order to create awareness in relation to garbage management?																									0	5
5200.17	Does the company have a policy to reduce garbage at the source?																									0	5
5200.18	Does the company promote participating in the Global Observatory on Marine Litter?																									0	5
5200.19	Does the company have a reporting system on lack of availability of reception facilities for certain types of garbage? (such as GISIS by IMO or equivalent)																									0	5
5200.13	Are shipboard crew encouraged by the company to deliver garbage ashore?																									0	10
5200.10	Is it a standard company practice that all operational waste is delivered ashore where reception facilities are available in order to minimise shipboard incineration and to reduce personnel exposure to toxic gases?																									0	10
5200.20	Is it a company policy that plastic is never incinerated?																									0	10
5200.21	Does the company provide guidelines to the crew members on sorting out of reusable and recyclable material?																									0	5
5200.22	Is it a company policy that all reusable and recyclable material are always delivered to the port reception facilities or reused onboard?																									0	5
5200.23	Does the company provide a list of hazardous garbage to create awareness among the crew (based on the current GESAMP list)?																									0	5
5200.24	Does the company provide a procedure to the crew members on storage/handling of hazardous garbage? (carcinogenic, mutagenic and reprotoxic substances)																									0	5
5200.25	Is it a company policy that all incinerated ashes and clinkers are always delivered to the port reception facilities?																									0	5
5200.28	Is it a company policy to use non harmful cleaning agents and additives for cleaning the deck and external surfaces?																									0	10
<b>Total score</b>																							<b>0</b>	<b>100</b>			
<b>Minimum ranking score required for element 5200 = 55</b>																											
<b>5300</b>	<b>Cargo Vapour Emission Control Systems</b>			o		o		o																			
5300.13	Does the company have additional procedures in place to avoid the venting of Boil-Off Gas to atmosphere?																									0	20
5300.14	Are annual quantities of incidental Boil-Off Gas to atmosphere as well as Boil-Off Gas to Gas Combustion Unit monitored for the fleet for continual improvement?																									0	20
<b>Total score</b>																							<b>0</b>	<b>40</b>			
<b>Minimum ranking score required for element 5200 = 20</b>																											

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5400	<b>Management of Ship Exhaust Emissions, SOx Content of Fuel, Sulphur Emission Control Areas (SECA)</b>					0																				
5400.10	Does the company policy define the desired maximum level of exhaust emissions for NOx ?																								0	20
5400.11	Does the company policy define the desired maximum level of exhaust emissions for SOx ?																								0	20
5400.12	Does the company policy define the desired maximum level of exhaust emissions for CO2 ?																								0	20
5400.13	Does the company policy define the desired maximum level of exhaust emissions for particulate matter ?																								0	20
5400.14	Does the company collect emission monitoring data on a regular basis (minimum quarterly) from its fleet and is this data used to set targets for continual improvement ?																								0	30
5400.5	Is the company making a verifiable effort to reduce the annual average sulphur content of fuel to a maximum of <u>2.43%</u> ?																								0	20
5400.6	Is it company policy for ships to use fuel with a sulphur content maximum 0.10% (or an approved equivalent arrangement as listed in the IAPP certificate) when sailing in areas designated as a sulphur emission control area (SECA)?																								0	20
5400.7	Is it company policy to equip vessels in such a way that fuel with a 0.10% sulphur limit can be used within SECA?																								0	40
5400.8	Does the company use an updated list of bunker suppliers who deliver fuel oil according to Regulation 14 and 18 of Annex VI and ISO 8217(2005) ?																								0	20
5400.15	Are company ships participating in emissions trading to reduce SOx exhaust within the industry ?																								0	50
<b>Total score</b>																							0	260		
<b>Minimum ranking score required for element 5400 = 80</b>																										
5460	<b>Environmental Ship Index (ESI)</b>			0		0																				
5460.1	Is it company policy for ships to participate in the Environmental Ship Index, where applicable? (The ESI is a project from the World Port Climate Initiative; its aim is to recognise ships whose air emissions are below regulatory limits and in doing so contribute to improvements in air quality and reduction of greenhouse gas emissions in the shipping sector).																								0	50
<b>Total score</b>																							0	50		
<b>Minimum ranking score required for element 5460 = 0</b>																										

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			5500	<b>Sewage Management</b>																						
	<b>Alternative 1: Sewage Treatment Plant</b>																									
5500.1	Is it company policy to treat the sewage with a sewage treatment plant which uses minimal or no use of harmful chemicals?																							0	20	
5500.2	Is it company policy to sample and monitor the discharged effluent periodically to check the compliance with: 1. MEPC 159(55) for plants installed after 1st Jan 2010; 2. MEPC 227(64) for plants installed after 1st Jan 2016.																							0	15	
5500.4	Does the company have a procedure to monitor and address any non-compliance in the effluent standards?																							0	15	
	<b>Alternative 2: Sewage comminuting and disinfecting system</b>																									
5500.5	Is it company policy to sample and monitor the discharged comminuted and disinfected sewage to check the compliance with the below listed standards? 1. Faecal Coliform not exceeding 1000/100 cm3 2. Chlorine residual level not more than 0.5 mg/l.																							0	10	
	<b>For all ships: Sewage Holding Tank</b>																									
5500.6	Did the company perform a risk assessment to calculate the capacity of the holding tank?																							0	5	
			<b>Total score</b>																				0	55		
			<b>Minimum ranking score required for element 5500 = 5</b>																							
5510	<b>Grey Water Management</b>																									
5510.1	Is it company policy to install a sewage treatment plant capable of treating grey water?																							0	15	
5510.2	Is it company policy to not discharge grey water within coastal and port areas?																							0	10	
			<b>Total score</b>																				0	25		
			<b>Minimum ranking score required for element 5510 = 0</b>																							
5700	<b>Ballast Water Management</b>					0	0																			
5700.1	Does the company have ship-specific procedures/instructions (flag-approved according to IMO guidelines) for the control and management of ballastwater on board?																							0	20	
5700.2	Is it company policy that ship(s) participate in promising ballast water treatment testing programs? (program is to be approved by the ship's flag state)																							0	50	
5700.3	Does the company monitor regional / local requirements concerning the control of ballastwater and is this information forwarded to the company vessels?																							0	10	
5700.4	Is it company policy that relevant crew is properly familiarised with operational & safety aspects of ballast water management?																							0	10	
5700.5	Are tasks & responsibilities of shipboard personnel assigned to ballast water exchange operations defined, documented & controlled ?																							0	10	
5700.6	Does the office support the master in cases where the ship cannot reasonably be expected to carry out ballast water exchange?																							0	10	
			<b>Total score</b>																				0	110		
			<b>Minimum ranking score required for element 5700 = 60</b>																							


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					<b>Lubrication and Use of Oils (Element nr.: 5810, 5811 &amp; 5812)</b>																					
5810	<b>Stern tube lubrication</b>																									
5810.1	Does the company install a class approved stern tube <u>water</u> lubricated system which uses <u>sea water</u> as a lubricant? (system includes water conditioning and monitoring equipment)																								0	60
5810.6	<b>Alternative for 5810.1 &amp; 5810.3:</b> Does the company install a class approved stern tube <u>water</u> lubricated system which uses <u>fresh water</u> as a lubricant? (system includes water and conditioning and monitoring equipment) *Additives used to maintain the condition of the water should be environmentally friendly.																								0	50
5810.3	<b>Alternative for 5810.1 &amp; 5810.6:</b> Is there a company policy to fit vessels with a class approved stern tube lubrication system with an <u>air type</u> or <u>void space seal</u> ?																								0	25
			<b>Total score</b>																				0	60		
			<b>Minimum ranking score required for element 5810 = 0</b>																							
5811	<b>Mooring wire lubrication</b>																									
5811.1	Is it company policy to use a mooring wire lubricant / grease that is certified according to the EEL?																								0	20
			<b>Total score</b>																				0	20		
			<b>Minimum ranking score required for element 5811 = 0</b>																							
5812	<b>Deck equipment lubrication (use of oils)</b>																									
5812.1	Is it company policy to use grease that is certified according to the EEL (all deck equipment)?																								0	15
5812.2	Is it company policy to use gear oil that is certified according to the EEL (all deck equipment)?																								0	10
5812.3	Is it company policy to use hydraulic oil that is certified according to the EEL in mooring and anchor appliances?																								0	10
5812.4	Is it company policy to use hydraulic oil that is certified according to the EEL in crane appliances?																								0	10
5812.6	Due to characteristics of environmentally friendly lubricants (EEL certified) are extra measures taken into account for the applicable system if needed? (e.g. condition of seals & filters, temperature & condition of oil, prevention of humidity ingress etc.)																								0	10
			<b>Total score</b>																				0	55		
			<b>Minimum ranking score required for element 5812 = 0</b>																							

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			5820	<b>Management of bilge water and sludge handling onboard</b>				0		0		0		0		0										
5820.1	Is it company policy to have a list of permitted chemicals and detergents used in machinery spaces available onboard in order to make ship crew familiar with the emulsifying characteristics in the ER bilge and sludge systems?																								0	5
5820.2	Is it company policy, that the engineer responsible for the bilge water management and sludge handling, is provided with a training program by the ship manager? (Training includes: bilge water system and sludge handling, use and disposal of chemicals and detergents available onboard and the problems related to bilge water and sludge separation)																								0	5
5820.3	Is it company policy to have an onboard familiarization checklist for the engine room personnel including sludge and bilge water management available?																								0	5
5820.4	Is it company policy that all the ER personnel is familiarized with the tanks in which the ER drip trays, drains, scuppers, gutters are connected to (In order to ensure that these substances are collected in the right tanks) ?																								0	5
5820.5	Is it company policy to include Sludge/Bilge and Soot collection tanks in the PMS for regular cleaning / inspection?																								0	5
5820.6	Is it company policy to build vessels with bilge and sludge handling system in accordance with the MEPC.1/Circ. 642) guidelines?																								0	5
<b>Total score</b>																							0	30		
Minimum ranking score required for element 5820 = 15																										


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5821	<b>Outfitting of bilge water system</b>				0		0		0		0		0													
	<b>Clean Drains (Drains that are normally not contaminated by oil)</b>																									
5821.1	Does the company have a policy that bilge water from the Clean drain tank (for the collection of "clean drains", as per MEPC.1/Circ.642) passes through the Oily Water Separator with a Bilge Alarm (As per Marpol Annex I)?																							0	5	
	<b>Soot Collection Tank arrangement</b>																									
5821.2	Are management instructions regarding disposal of soot and soot-water mixtures available onboard for ships equipped with Soot separation / collection tank?																							0	5	
	<b>Oily bilge water tank arrangement</b>																									
5821.3	Is it company policy to install a (floating) oil skimmer or equipment in the (oily) Bilge water Holding tank / Bilge Primary Tank for the effective and safe removal of sludge from the surface of the tank?																							0	5	
5821.4	Is it company policy to install Clean Water Tank (to enable Oily Bilge Water to be processed while in port and special areas)?																							0	10	
5821.5	Is it company policy to pump Oily bilge water from the Oily bilge water holding tank through the Oily Water Separator to the Clean water tank?																							0	5	
	<b>Oil content meter</b>																									
5821.6	Is it company policy to install an oil content meter with an automatic stopping device capable of measuring the difference in emulsifying particles and oil, as per IMO resolution MEPC.107(49)?																							0	5	
5821.7	Are instructions available in the management system to avoid that the Oil Content Meter is flushed/diluted with clean water during Oily Water Separator operation or is equipment installed (e.g. White Box) ?																							0	10	
5821.8	Is it company policy to equip the Oily Water Separator with a re-circulating facility for testing purposes as per IMO resolution MEPC.107(49) 6.1.1. ?																							0	5	
	<b>5821.9 is an alternative to 5821.1 - 5821.8 (all the above)</b>																									
5821.9	Is it a company policy to always deliver all bilge water to reception facilities?																							0	50	
																								0	50	
																								<b>Total score</b>		
																								0	50	
																								<b>Minimum ranking score required for element 5821 = 20</b>		

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5822	<b>Outfitting of sludge handling system</b>				0		0		0				0														
5822.1	Is it company policy to install a sludge collecting pump as per MEPC.1/Circ.642? (with the sole purpose of collecting the sludge from different ER tanks to the Oil Residue (Sludge) Tank)?																									0	5
5822.2	Is it company policy to install a separate sludge discharge pump with the purpose of discharging the sludge to reception facility?																									0	5
5822.3	Is it company policy to improve the efficiency and capacity of the Oily residue (sludge) service tank by installing: - a tank or system with the sole purpose of removing large quantities of water from the sludge? - a separate tank or system with the sole purpose of evaporating water from the sludge? - a separate tank or system with the purpose of mixing the sludge while incinerated (in incinerator or boiler)																									0	5
5822.4	Is it a company policy to install an incinerator, capable of incinerating sludge that contains more than 25% of water (certified to the standard of IMO MEPC.76(40) as amended by MEPC.93(45))?																									0	5
5822.5	Is it a company policy to install sludge decanters onboard with the purpose of using the sludge as a fuel.																									0	5
5822.6	Is it a company selection process to assign ships that always deliver all sludge to reception facilities?																									0	5
5822.7	Does the company manage ships which do not use HFO as a fuel (resulting in a limited sludge production) ?																									0	5
			<b>Total score</b>																				<b>0</b>	<b>35</b>			
			<b>Minimum ranking score required for element 5822 = 5</b>																								




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			5900	<b>Ship Recycling - Inventory of Hazardous Materials</b>		0		0		0																
	<b>New buildings - For Owner / Managers and 3rd-party Ship Managers For 5900.1, 5900.12 and 5900.2</b>																									
5900.1	Does the company require from the shipyard to develop the "Inventory of Hazardous Materials" (Part I) at the stage of design and/or construction? (requirement to be part of the building contract)																								0	40
5900.12	Does the company require the shipyard to have procedures to require equipment-/machinery-suppliers to provide a "Material Declaration"? (used by the yard to develop the Inventory Part I) (requirement to be part of the building contract)																								0	10
5900.2	Does the company require the shipyard to include in these procedures that the "Material Declaration" contains information on the safe removal of hazardous materials? (requirement to be part of the building contract)																								0	10
	<b>Existing ships - For Owner / Managers and 3rd-party Ship Managers For 5900.10, 5900.13 and 5900.3</b>																									
5900.10	Is each Green Award-certified company vessel in the possession of an "Inventory of Hazardous Materials" (Part I completed) or a "Green Passport"?																								0	40
5900.13	<b>Alternative to 5900.10 and 5900.3:</b> Are there company procedures implemented to initiate and complete over time all 5 steps of Part I of the "Inventory of Hazardous Materials" for each Green Award certified vessel in the fleet?																								0	20
5900.3	<b>Alternative to 5900.10 and 5900.13:</b> Are there company procedures implemented to initiate as a minimum Step 1 of Part I of the "Inventory of Hazardous Materials" for each Green Award certified vessel in the fleet?																								0	10
																									0	100
			<b>Total score</b>																			0	100			
			<b>Minimum ranking score required for element 5900 = 40</b>																							






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			6300	<b>Corrosion Prevention of Seawater Ballast Tanks</b>					0																	
6300.8	Is it company policy that ballast tanks of vessels delivered after 01-07-2012, are coated with a hard coating of a light colour?																							0	20	
6300.1	<b>For existing vessels:</b> Are ballast tanks coated with a hard coating of a light colour?																							0	10	
6300.6	<b>For existing vessels:</b> Are ballast tanks coated with dark epoxy maintained with a modified epoxy coating of a light colour, after safety benefit assessment is carried out?																							0	5	
6300.7	Is the coating approved according to the IMO performance standard? (type approval or statement of compliance according to Res. MSC 215(82) in Coating Technical File)																							0	20	
6300.4	Does the company have a system which ensures an adequate level of corrosion prevention of the seawater ballast tanks? (Protective coatings provided in ballast tanks has to be in a GOOD condition)																							0	10	
6300.5	Does the company require the corrosion prevention system to be part of the vessel maintenance system?																							0	10	
<b>Total score</b>																							0	75		
<b>Minimum ranking score required for element 6300 = 40</b>																										
6400	<b>Condition Assessment Program, Maintenance</b> Additional Green Award requirements		0			0																				
	<b>For Owner/Managers</b>																									
6400.1	Is it company policy that a condition assessment for <u>Hull</u> will be carried out on vessels more than <u>20 years old</u> , or by the <u>end of the 4th special survey</u> , whichever is earlier?																							0	25	
6400.8	Is it company policy that a condition assessment for <u>Cargo Systems</u> will be carried out on vessels more than <u>20 years old</u> , or by the <u>end of the 4th special survey</u> , whichever is earlier?																							0	20	
6400.9	Is it company policy that a condition assessment for <u>Machinery</u> will be carried out on vessels more than <u>20 years old</u> , or by the <u>end of the 4th special survey</u> , whichever is earlier?																							0	20	
<b>6400.10, 6400.11 &amp; 6400.12 are alternatives to 6400.1, 6400.8 &amp; 6400.9</b>																										
<b>For 3rd-party Ship Managers</b>																										
6400.10	Is it company policy to request ship owners to carry out condition assessment for <u>Hull</u> on vessels more than <u>20 years old</u> , or by the <u>end of the 4th special survey</u> , whichever is earlier?																							0	25	
6400.11	Is it company policy to request ship owners to carry out condition assessment for <u>Cargo Systems</u> on vessels more than <u>20 years old</u> , or by the <u>end of the 4th special survey</u> , whichever is earlier?																							0	20	
6400.12	Is it company policy to request ship owners to carry out condition assessment for <u>Machinery</u> on vessels more than <u>20 years old</u> , or by the <u>end of the 4th special survey</u> , whichever is earlier?																							0	20	
6400.3	Is it company policy that maintenance meetings are carried out on board? (e.g. each month and at (all) sections on board)																							0	10	
6400.4	Is a maintenance checklist used regarding the (monthly) maintenance inspection?																							0	10	
6400.5	Is an evaluation report of vessel's performance sent to the company?																							0	20	
6400.6	Is an annual technical report made by the Company's superintendent?																							0	15	
<b>Total score</b>																							0	120		
<b>Minimum ranking score required for element 6400 = 60</b>																										


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			Doc. & Impl.	Doc. & Impl.	Doc. & Impl.	Doc. & Impl.	Doc. & Impl.	Doc. & Impl.	Doc. & Impl.	Doc. & Impl.	Doc. & Impl.	Doc. & Impl.	Doc. & Impl.																				
7000	<b>CREW</b>																																
7100	<b>Employment of Personnel</b>																																
7100.1	Is it company policy to employ all ship-personnel on a permanent basis?																					0	30										
<b>Alternative to 7100.1 (7100.2 - 7100.4)</b>																																	
7100.2	Is it company policy to employ senior officers on a permanent basis?																					0	10										
7100.3	Is it company policy to employ officers on a permanent basis?																					0	10										
7100.4	Is it company policy to employ ratings on a permanent basis?																					0	10										
																			<b>Total score</b>		0	30											
																			<b>Minimum ranking score required for element 7100 = 0</b>														
7200	<b>Extra Personnel, Additional Green Award Requirement</b>																																
7200.1	Is it company policy to employ extra deck officers onboard in addition to what is required by minimum safe manning document?																					0	10										
7200.7	Is it company policy to employ extra engine officers onboard in addition to what is required by minimum safe manning document?																					0	10										
7200.2	Is it company policy to employ extra deck ratings onboard in addition to what is required by minimum safe manning document?																					0	10										
7200.6	Is it company policy to employ extra engine ratings onboard in addition to what is required by minimum safe manning document?																					0	10										
7200.3	Is it company policy to have a ship administrator onboard ? (In addition to the standard complement and extra deck-officers and -ratings above)?																					0	10										
7200.4	Is it company policy to employ riding squads to carry out extensive maintenance jobs ?																					0	10										
7200.8	Is it company policy that manufacturer service engineers routinely attend the vessel or provide remote monitoring assistance for maintenance/repair of technical equipment or systems ?																					0	10										
7200.5	Is it a company policy to employ a gas engineer on board?																					0	10										
7200.9	Is it company policy to hire an electrical officer in addition to the engine officers required by the safe manning document?																					0	10										
																			<b>Total score</b>		0	90											
																			<b>Minimum ranking score required for element 7200 = 40</b>														

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7300	<b>Training / Courses for Personnel</b> , Additional Green Award Requirements & IMO Model Courses										0															
7300.1	Is it company policy that the 2nd officer (deck) must complete an approved advanced training for liquefied gas tanker cargo operations? (As a minimum, the program should comply with STCW 2010 including Manila amendments Reg V/1-2)																								0	5
7300.2	Is it company policy that all onboard personnel are trained and qualified according to the approved basic training for liquefied gas tanker cargo operations? (as STCW 2010 including Manila amendments Reg V/1-2) (If training comprises at least 3 months approved seagoing service on tankers (instead of an approved tanker familiarisation course) this should include onboard computer-based training (CBT) and a documented system showing participation and qualifications).																								0	5
7300.4	Is it company policy to provide a training for advanced fire fighting to the lower ranking deck officers (IMO 2.03) ?																								0	5
7300.18	Is it company policy to provide a training for advanced fire fighting to the lower ranking engine officers (IMO 2.03) ?																								0	5
7300.5	Does the company provide "onboard assessment/train the trainer" courses for the onboard management (IMO 1.30) ?																								0	10
7300.6	Does the company provide simulator training /courses for officers involved in cargo and ballast handling (IMO 1.36) ?																								0	15
7300.7	Does the company provide "Marine Environmental Awareness" course (IMO 1.38) for all the ship personnel?																								0	10
7300.21	Does the company provide "Marine Environmental Awareness" course (IMO 1.38) to the technical superintendents?																								0	5
7300.22	Does the company provide "Marine Environmental Awareness" (IMO 1.38) to the HSQE manager ?																								0	5
7300.8	Does the company provide bridge team management/ bridge resource management training / course for all deck officers (IMO 1.22) ?																								0	5
7300.19	Does the company provide engine room resource management training/courses for all engine officers ?																								0	5
7300.20	<u>Alternative for 7300.8 &amp; 7300.19</u> Does the company provide maritime resource management course for all officers ?																								0	10
7300.9	Does the company have a structured program for refresher and updated training at suitable intervals for office and shipboard personnel?																								0	15
7300.10	Is it company policy to employ cadets by providing training and education in order to recruit future officers?																								0	15
7300.12	Is it company policy that all senior officers (Master, Chief Officer, Chief Engineer, 2nd Engineer and Gas Engineer) have completed the Liquid Cargo Operations Simulator (LICOS) course as recommended by SIGTTO for senior officers and relevant to cargo containment type (Membrane or Spherical)?																								0	10
7300.13	Is it company policy that all junior officers (2nd Officer, 3rd Officer, 3rd Engineer and 4th Engineer) have completed the Liquid Cargo Operations Simulator (LICOS) course as recommended by SIGTTO for junior officers and relevant to cargo containment type (Membrane or Spherical)?																								0	20
7300.14	Does the company have a system in place to monitor officers' competence, training, time in rank and use it as a basis for promotion?																								0	10


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			7300.15	Is the system as meant in 7300.14 audited and certified by an IACS member classification society?																					
7300.17	Is it company policy that all the officers are to complete Security Awareness Training ?																							0	5
<b>Total score</b>																							0	170	
<b>Minimum ranking score required for element 7300 = 90</b>																									
7400	<b>Familiarisation, Additional Green Award Requirement</b>								0		0														
7400.1	Is it company policy that the shipboard crew after a period of absence or leave has been provided with familiarization of changes with regard to the operations/machinery which is related to their position ?																							0	20
7400.2	Is it company policy that newly employed personnel are provided with familiarization with regard to operations/machinery which is related to their position ?																							0	20
7400.3	Is it company policy that senior officers are retained to sail on the same type of vessel (Membrane or Spherical)?																							0	10
7400.6	Is it company policy that Junior officers are retained to sail on the same type of vessel (Membrane or Spherical)?																							0	10
7400.4	Is a formal handover procedure implemented for all officers onboard?																							0	10
<b>Total score</b>																							0	70	
<b>Minimum ranking score required for element 7400 = 50</b>																									
7500	<b>Safe Manning and Fatigue Management</b>										0														
7500.1	Is it a company policy to use a software programme to record the work/rest hours performed by the individual seafarer ?																							0	10
7500.3	Is it a company policy that work/rest hours records onboard of the vessel are accessible and regularly updated ?																							0	10
7500.4	Are reports of work/rest hours reviewed on regular basis ?																							0	10
7500.2	Is there a company policy to monitor and address non compliance on STCW 2010 Manila amendments of work/rest hours ?																							0	10
7500.5	Is there a company specific fatigue management plan available to ensure the health and the well being of the sea farers ?																							0	20
7500.6	Is it company policy to integrate the fatigue management plan with the safety management system and monitor its implementation?																							0	5
7500.7	Does the company have a system in which crew members are able to report on fatigue related issues?																							0	5
<b>Total score</b>																							0	70	
<b>Minimum ranking score required for element 7500 = 50</b>																									



**CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2019**

Revision Code	Norm Item	 <div style="text-align: center; border: 1px solid black; padding: 10px;"> <h1 style="margin: 0;">RANKING</h1> <h2 style="margin: 0;">Office - LNG</h2> </div>	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	IT DEPT.	Doc. & Impl.	INS. / CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE		
<b>9000</b>	<b>REQUIREMENTS ACCORDING TO NEN-EN ISO 9001:2000</b>																										
9401	MANAGEMENT RESPONSIBILITY		<b>Included in ISM: See BASIC criteria</b>																								
9402	QUALITY SYSTEM		<b>Included in ISM: See BASIC criteria</b>																								
9403	CONTRACT REVIEW		<b>Included in ISM: See BASIC criteria</b>																								
9404	DESIGN CONTROL		<b>Not applicable</b>																								
9405	DOCUMENT CONTROL		<b>Included in ISM: See BASIC criteria</b>																								
9406	PURCHASING				o		o					o				o											
9406.1	Is the selection of suppliers documented?																									0	10
9406.2	Is evaluation of suppliers done/reported?																									0	10
9406.3	Are order specifications drawn up clearly?																									0	10
9406.4	Are responsibilities of purchasers defined?																									0	10
9406.5	Does shipboard personnel have a working procedure regarding ordering spare parts?																									0	10
9406.6	Are audit reports of contracted suppliers available? (e.g. manning agencies, charter-in, major suppliers and dry-dock - all as a result of 9406.2)																									0	10
			<b>Total score</b>																						<b>0</b>	<b>60</b>	
			<b>Minimum ranking score required for element 9406 = 60</b>																								
9407	PURCHASER SUPPLIED PRODUCT					o										o											
9407.1	Are agreements made for checks/proofs from the supplier?																									0	10
9407.2	Are the delivered goods immediately checked after delivery?																									0	10
9407.3	Are non-conformities of the delivered goods registered?																									0	10
9407.4	Is a list of signatures and initials available?																									0	10
			<b>Total score</b>																						<b>0</b>	<b>40</b>	
			<b>Minimum ranking score required for element 9407 = 40</b>																								











CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2019																										
Revision Code	Norm Item	 <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h1 style="margin: 0;">RANKING</h1> <h2 style="margin: 0;">Office - LNG</h2> </div>	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	IT DEPT.	Doc. & Impl.	INS-/CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE	
				<b>9408</b>	<b>PRODUCT IDENTIFICATION AND TRACEABILITY</b>					0		0				0										
	9408.1	Are working procedures available ?																							0	10
	9408.2	Is product identification registered?																							0	10
			<b>Total score</b>																				0	20		
			<b>Minimum ranking score required for element 9408 = 20</b>																							
	<b>9409</b>	<b>PROCESS CONTROL</b>	<b>Included in ISM: See BASIC criteria</b>																							
	<b>9410</b>	<b>INSPECTION AND TESTING</b>	<b>Included in ISM: See BASIC criteria</b>																							
	<b>9411</b>	<b>INSPECTION, MEASURING AND TEST EQUIPMENT</b>					0		0																	
	9411.1	Is an overview of certificates of these apparatus available?																							0	10
			<b>Total score</b>																				0	10		
			<b>Minimum ranking score required for element 9411 = 10</b>																							
	<b>9412</b>	<b>INSPECTION AND TEST STATUS</b>					0		0																	
	9412.1	Are working procedures available?																							0	10
	9412.2	Is a status quo report of e.g. coating of tanks available?																							0	10
			<b>Total score</b>																				0	20		
			<b>Minimum ranking score required for element 9412 = 20</b>																							
	<b>9413</b>	<b>CONTROL OF NON CONFORMING PRODUCT</b>	<b>Included in ISM: See BASIC criteria</b>																							
	<b>9414</b>	<b>CORRECTIVE ACTION</b>	<b>Included in ISM: See BASIC criteria</b>																							
	<b>9415</b>	<b>HANDLING, STORAGE, PACKAGING AND DELIVERY</b>											0													
	9415.1	Is a vessel generally checked in order to meet the customer's requirements?																							0	10
	9415.2	Are cargo/product specifics received from the customer and evaluated in comparison with the nominated vessel?																							0	10
	9415.3	Is communication between charterer, office and ship traceable?																							0	10
			<b>Total score</b>																				0	30		
			<b>Minimum ranking score required for element 9415 = 30</b>																							
	<b>9416</b>	<b>QUALITY RECORDS</b>	<b>Included in ISM: See BASIC criteria</b>																							
	<b>9417</b>	<b>INTERNAL QUALITY AUDITS</b>	<b>Included in ISM: See BASIC criteria</b>																							
	<b>9418</b>	<b>TRAINING</b>	<b>Included in ISM: See BASIC criteria</b>																							
	<b>9419</b>	<b>SERVICING</b>	<b>Not applicable</b>																							
	<b>9420</b>	<b>STATISTICS (See also vessel requirements)</b>		0	0		0		0		0		0		0		0		0		0					
	9420.7	Is statistical data, received from the vessels, evaluated and used for improving performance?																							0	10
	9420.8	Is evaluated statistical information distributed to departments concerned and are trends analysed?																							0	10
			<b>Total score</b>																				0	20		
			<b>Minimum ranking score required for element 9420 = 20</b>																							

CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2019						
Norm item		TOTAL SCORE REVIEW OFFICE AUDIT - LNG CARRIER	OFFICE RANKING SCORE	MAXIMUM OBTAINABLE RANKING SCORE	MINIMUM RANKING SCORE REQUIRED	ELEMENTS WITH NO MINIMUM SCORE
<b>1000</b>	<b>GENERAL</b>					
1100	Data Monitoring and Recording Equipment		0	35	0	
1200	Enclosed Space Entry & Hot Work		0	110	110	
1300	Compressor for the refilling of air cylinders for breathing apparatus or Alternative, Additional Green Award requirement		0	20	10	
1400	Control of drugs & alcohol onboard		0	35	20	
1500	Emergency Response System		0	75	55	
1600	Computer Systems, Networks, Data Security and Training. GA requirement		0	65	40	
1610	Cyber Risk Management		0	50	30	
1700	Noise and Vibration Management		0	65	25	
1710	Underwater Noise and Vibration Management		0	30	0	
<b>2000</b>	<b>NAVIGATION / BRIDGE OPERATIONS</b>					
2100	Navigation		0	120	50	
2111	Electronic chart display & information systems / ECDIS		0	60	35	
2120	Fuel Change Over / Ballast Water Exchange		0	20	20	
2300	Mooring Operations		0	10	10	
<b>3000</b>	<b>MACHINERY / ENGINE OPERATIONS</b>					
3100	Bunker Operations		0	50	50	
3200	Fuel Oil Testing, Bunker Alerts & Marpol Bunkering Requirements & Additional Green Award requirements		0	90	70	
<b>4000</b>	<b>CARGOES / CARGO OPERATIONS</b>					
4100	LNG Carrier Cargo Operations & Additional Green Award requirements		0	60	60	
4200	Ship to Ship Transfer Operations		0	40	40	
<b>5000</b>	<b>PREVENTION OF POLLUTION</b>					
5200	Waste Management / Garbage Handling Onboard		0	100	55	
5300	Cargo Vapour Emission Control Systems		0	40	20	
5400	Management of Ship Exhaust Emissions, SOx Content of Fuel, Sulphur Emission Control Areas (SECA)		0	260	80	
5460	Environmental Ship Index (ESI)		0	50	0	
5500	Sewage Management		0	55	5	
5510	Grey Water Management		0	25	0	
5700	Ballast Water Management		0	110	60	
5810	Stern tube lubrication		0	60	0	
5811	Mooring wire lubrication		0	20	0	
5812	Deck equipment lubrication (use of oils)		0	55	0	
5820	Management of bilge water and sludge handling onboard		0	30	15	
5821	Outfitting of bilge water system		0	50	20	
5822	Outfitting of sludge handling system		0	35	5	
5900	Ship Recycling - Inventory of Hazardous Materials		0	100	40	
5910	Ship Recycling - Policy for ships due to be recycled		0	140	60	

CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2019						
Norm item		TOTAL SCORE REVIEW OFFICE AUDIT - LNG CARRIER	OFFICE RANKING SCORE	MAXIMUM OBTAINABLE RANKING SCORE	MINIMUM RANKING SCORE REQUIRED	ELEMENTS WITH NO MINIMUM SCORE
<b>6000</b>	<b>MAINTENANCE / SURVEYS</b>					
6100	Programme of Inspections		0	70	60	
6110	Critical and Stand-by Equipment		0	75	30	
6200	Mooring Equipment		0	75	45	
6300	Corrosion Prevention of Seawater Ballast Tanks		0	75	40	
6400	Condition Assessment Program, Maintenance Additional Green Award requirements		0	120	60	
<b>7000</b>	<b>CREW</b>					
7100	Employment of Personnel		0	30	0	
7200	Extra Personnel, Additional Green Award Requirement		0	90	40	
7300	Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses		0	170	90	
7400	Familiarisation, Additional Green Award Requirement		0	70	50	
7500	Safe Manning and Fatigue Management		0	70	50	
<b>9000</b>	<b>REQUIREMENTS ACCORDING TO NEN-EN ISO 9001:2000</b>					
9406	PURCHASING		0	60	60	
9407	PURCHASER SUPPLIED PRODUCT		0	40	40	
9408	PRODUCT IDENTIFICATION AND TRACEABILITY		0	20	20	
9411	INSPECTION, MEASURING AND TEST EQUIPMENT		0	10	10	
9412	INSPECTION AND TEST STATUS		0	20	20	
9415	HANDLING, STORAGE, PACKAGING AND DELIVERY		0	30	30	
9420	STATISTICS (See also vessel requirements)		0	20	20	
	<b>TOTAL SCORES</b>		<b>0</b>	<b>3110</b>	<b>1650</b>	

**LEGEND**

	Indicates which crew/employee may be interviewed/questioned.
	Shows that a certain item is complied.
	Shows that a certain item is <i>not</i> complied.
	0 Indicates that an alternative is used, hence the score for that item is a "0".
	The checklist was filled in incorrectly, thus shows "error".
	0 Indicates that the whole element did not reach the minimum score, hence a finding is issued. The number shows the scores obtained.
	Shows which elements are minimum = maximum. Hence scores on all items is required to fully comply.
	Indicates that the minimum score for the relevant element is "0", hence a finding will <i>not</i> be issued.


\* for detailed interpretations of the colours and the usage of the checklist, please refer to the pdf-file named "Instruction Notes" located on [www.greenaward.org](http://www.greenaward.org) under "Certification/ Download".

## **APPENDIX 3**


CHECKLIST - BASIC CRITERIA - SHIP SURVEY -  
LNG CARRIER


(LMC-08)

**CHECKLIST - BASIC CRITERIA - SURVEY - LNG CARRIER - VERSION 2019**


Revision Code	Norm item	 <div style="border: 1px solid black; padding: 10px; text-align: center; margin-top: 10px;"> <h1 style="margin: 0;">BASIC</h1> <h2 style="margin: 0;">Ship - LNG</h2> </div>	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING	Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl.	NOT APPLICABLE
				<b>100</b>	<b>MANAGEMENT ELEMENTS</b>														
	<b>101</b>	<b>GENERAL</b>	o																
	<b>101.1</b>	Are the Management System (MS) Manuals maintained and updated?																	
	<b>102</b>	<b>SAFETY AND ENVIRONMENTAL PROTECTION POLICY</b>	o		o		o		o		o		o		o		o		
	<b>102.1</b>	Is the company policy concerning safety and the environment available, posted and implemented at all levels?																	
	<b>103</b>	<b>COMPANY RESPONSIBILITIES AND AUTHORITY</b>	o		o		o		o		o		o		o		o		
	<b>103.1</b>	Are the responsibilities and authorities of all shipboard personnel clearly defined and implemented?																	
	<b>103.2</b>	Are shore-ship communications, defined levels of authority and lines of communication documented and working effectively ?																	
	<b>104</b>	<b>DESIGNATED PERSONS</b>	o		o		o		o		o		o		o		o		
	<b>104.2</b>	Is (are) (a) designated person(s) known on board?																	
	<b>104.3</b>	Is objective evidence available that safety and environmental aspects of the operation of the ship are monitored and that the required adequate resources and shore-based support is applied ?																	
	<b>105</b>	<b>MASTER'S RESPONSIBILITY AND AUTHORITY</b>	o																
	<b>105.1</b>	Is the responsibility of the master clearly defined and documented?																	
	<b>105.2</b>	Does the master implement the Company's safety and environmental-protection policy on board?																	
	<b>105.3</b>	Does the master motivate the crew in the observation of that policy?																	
	<b>105.4</b>	Does the master verify that specified requirements are observed?																	
	<b>105.5</b>	Does the master review the MS and are its deficiencies reported to the shore-based management?																	
	<b>106</b>	<b>RESOURCES AND PERSONNEL AND STCW</b>	o								o								
	<b>106.1</b>	Does the company have a procedure for the Master to ensure that assigned sea staff are in possession of necessary certificates when joining the vessel?																	
	<b>106.4</b>	Are shipboard personnel informed about new/revised rules, regulations, codes and guidelines?																	
	<b>106.6</b>	Does ship's personnel receive training/courses which are required in support of the MS?																	
	<b>106.11</b>	Is the working language between the office and the vessels defined?																	
	<b>106.12</b>	Are all senior and deck officers conversant in the English language for maritime communication?																	
	<b>106.13</b>	Is relevant information on the MS written in a working language or languages understood by officers and shipboard personnel?																	
	<b>106.14</b>	Is the working language monitored and checked by the ship's staff?																	
	<b>106.15</b>	Are new personnel and personnel transferred to new assignments, given proper familiarisation with their duties?																	
	<b>106.16</b>	Are instructions, which are essential prior to sailing, identified, documented and given to the new personnel?																	
	<b>106.17</b>	Is the Master fully conversant with the Company's Management Systems?																	

**CHECKLIST - BASIC CRITERIA - SURVEY - LNG CARRIER - VERSION 2019**

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107	<b>DEVELOPMENT OF PLANS FOR SHIPBOARD OPERATIONS</b>		0		0						0						0		
107.2	Are plans and instructions for key shipboard operations concerning safety of the ship and prevention of pollution, evaluated and reviewed?																		
107.3	Are tasks, qualifications and responsibilities defined in the manuals and in the job descriptions?																		
108	<b>EMERGENCY PREPAREDNESS</b>		0		0		0		0		0		0		0		0		
108.1	Does the system cover the arrangements needed to ensure that the company, day and night, can be notified if a hazard, accident or emergency involving the ship occurs ?																		
108.2	Are tasks, qualifications and responsibilities evaluated during drills and exercises as described in the emergency procedures?																		
108.3	Is communication with media described in the emergency procedures and is shipboard personnel aware of these instructions?																		
108.5	Is the shipboard personnel prepared to respond to emergency shipboard situations?																		
109	<b>REPORTS AND ANALYSES OF NON-CONFORMITIES, ACCIDENTS AND HAZARDOUS OCCURENCES</b>		0		0						0						0		
109.1	Are safety and environmental inspections carried out, documented and reported?																		
109.2	Does the ship have instructions/procedures for the reporting of non-conformities/ near misses?																		
109.3	Are non-conformities, accidents and hazardous occurrences reported to the office?																		
109.4	Are corrective and/or preventive actions taken?																		
109.5	Does the company have objective evidence to show their support of the shipboard personnel in reporting of non-conformities / near misses?																		
110	<b>MAINTENANCE OF THE SHIP AND EQUIPMENT</b>		0		0						0						0		
110.1	Are ship inspections held at defined intervals? (minimum of twice a year or equivalent)																		
110.2	Are non-conformities reported including their possible cause?																		
110.3	Is appropriate corrective action taken?																		
110.4	Are records of these activities maintained?																		
110.5	Are ship-critical equipment and technical systems identified?																		
110.6	Does the MS provide for specific measures aimed at promoting the reliability of critical equipment and systems ?																		
111	<b>DOCUMENTATION</b>		0		0						0								
111.1	Does the company have procedures to control documents and data relevant to the MS?																		
111.2	Are valid documents available at all relevant locations?																		
111.3	Are changes to documents reviewed and approved by authorised personnel?																		
111.4	Are obsolete documents promptly removed ?																		


CHECKLIST - BASIC CRITERIA - SURVEY - LNG CARRIER - VERSION 2019																		
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112	<b>COMPANY VERIFICATION, REVIEW AND EVALUATION</b>		<input checked="" type="radio"/>		<input checked="" type="radio"/>						<input checked="" type="radio"/>							
112.1	Are internal audits carried out to verify whether safety and pollution-prevention activities, and other procedures, comply with the MS?																	
112.4	Are results of the audits and reviews brought to the attention of all shipboard personnel having responsibility in the area involved?																	
	<b>IMO ELEMENTS</b>																	
200	<b>SOLAS 1974</b>																	
201	<b>SOLAS General Provisions</b>		<input checked="" type="radio"/>							<input checked="" type="radio"/>								
201.1	Compliance with General Provisions																	
201.2	Compliance with IGC Code																	
213	<b>Certificates and documents on board</b>		<input checked="" type="radio"/>							<input checked="" type="radio"/>								
213.1	Are all regulatory certificates valid ?																	
216	<b>Maritime security</b>		<input checked="" type="radio"/>															
216.1	Does the ship have a valid (interim) International Ship Security Certificate?																	
216.2	Is the ship's crew familiarised in general with the principles of the ISPS Code (ship related) ?																	

**CHECKLIST - BASIC CRITERIA - SURVEY - LNG CARRIER - VERSION 2019**

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			217	<b>Safety of Navigation / SOLAS chart carriage requirements</b>		○				○									
	<b>Alternative 1 (217.1 - 217.4) : Compulsory carriage of ECDIS, with full official ENC coverage</b>																		
217.1	Is the ECDIS type-approved according to Res A 817(19) as amended by MSC 64 (67) and MSC 86 (70) or MSC.232(82)?																		
217.3	Is an acceptable back-up arrangement in place? ( an independent type-approved ECDIS with an independent position fixing system using official Electronic Navigational Charts (ENC's), or a full / reduced folio of up-to-date paper charts as relevant to the ship's voyage )																		
217.4	Are all official ENCs up-to-date?																		
	<b>Alternative 2 (217.1 - 217.4): Compulsory carriage of ECDIS, Navigation with official ENCs where available and official RNCs where ENCs are not available</b>																		
217.1	Is the ECDIS type-approved according to Res A817 (19) as amended by MSC 64 (67) and MSC 86 (70) or MSC.232(82)?																		
217.2	Is the supplementary folio of paper charts acceptable for that part of the voyage where official RNCs are used ?																		
217.3	Is an acceptable back-up arrangement in place? ( an independent type-approved ECDIS with an independent position fixing system using official ENCs and Raster Navigational Charts where needed, or a full / reduced folio of up-to-date paper charts, as relevant to the ship's voyage )																		
217.4	Are all official ENCs and RNCs up-to-date?																		
	<b>Training &amp; Onboard Use of ECDIS (Compulsory carriage of ECDIS)</b>																		
217.5	Have all deck officers and the master completed generic training in the use of ECDIS based on the IMO model course 1.27?																		
217.6	Have all deck officers and master been familiarized with ECDIS unit(s) installed onboard?																		
217.7	Is a risk assessment carried out for the operation of ECDIS which identifies and controls the hazards when using ENCs and (if used) when ECDIS is in RCDS mode?																		
217.8	Are results from the assessment evident in the onboard procedures + instructions for ECDIS?																		
217.9	Is the risk assessment and relevant onboard procedures + instructions reviewed on a regular basis (at least once a year or if circumstances require a review) ?																		
218	<b>Noise Levels On Board Ships</b>																		
	<i>(Only applicable to new ships of a gross tonnage of 1,600 and above.)</i>																		
218.1	Is the noise survey report available onboard?																		
218.2	Are noise areas marked by placing relevant visible warning notices at the entrance to these areas? (IMO noise symbols)																		




**CHECKLIST - BASIC CRITERIA - SURVEY - LNG CARRIER - VERSION 2019**


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			<b>300</b>	<b>MARPOL 73/78</b>															
<b>301</b>	<b>Provisions concerning Reports on Incidents Involving Harmful Substances (Protocol 1)</b>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>														
<b>301.1</b>	Does the Master have a procedure in order to report an incident to the nearest coastal state?																		
<b>310</b>	<b>Prevention of pollution by oil</b>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
<b>310.2</b>	Is the shipboard oil pollution emergency plan maintained and updated?																		
<b>310.5</b>	Are updated contact lists of coastal States, port contacts and ship interest contacts available?																		
<b>310.6</b>	Does the company have a policy concerning the retention and disposal of oil residues (sludge)?																		
<b>310.8</b>	Are actions and responsibilities of the shipboard personnel clearly described in the SOPEP ?																		
<b>310.9</b>	Does the plan provide procedures for the removal of oil spilled and contained on deck?																		
<b>310.10</b>	Does the plan provide guidance to ensure proper disposal of removed oil and clean-up materials?																		
<b>310.11</b>	Does the plan include a list of information required for making damage stability and damage longitudinal strength assessments?																		
<b>350</b>	<b>Prevention of pollution by garbage</b>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
<b>350.2</b>	Does the vessel have a ship specific garbage management plan taking into account the number of people onboard, size/type and the trade area of the ship?																		
<b>350.3</b>	Are records kept according to the garbage management plan?																		
<b>360</b>	<b>Marpol NOx emission limits</b>										<input checked="" type="checkbox"/>								
<b>360.1</b>	(For ships keel laid on or after 1 January 2000): Are all diesel engines with power > 130 kW certified to comply with NOx limits in Marpol Annex VI Regulation 13 3) a) ?																		
<b>400</b>	<b>Specialised LNG Carrier Training</b>		<input checked="" type="checkbox"/>																
<b>400.2</b>	Have the Master, CO, CE, + 2nd Engineer completed an approved advanced training for liquefied gas tanker cargo operations? (As a minimum, the program should comply with STCW 2010 including Manila amendments Reg V/1-2)																		


## **APPENDIX 4**


### **CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER**

**(LMC-09)**


CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2019																											
Revision Code	Norm Item		<div style="border: 1px solid black; padding: 10px; text-align: center;"> <h1 style="margin: 0;">RANKING</h1> <h2 style="margin: 0;">Ship - LNG</h2> </div>														MASTER Doc. & Impl.	CHIEF OFFICER Doc. & Impl.	DECK OFFICER Doc. & Impl.	DECK RATING Doc. & Impl.	CHIEF ENGINEER Doc. & Impl.	ENGINEER OFFICER Doc. & Impl.	ENGINEER RATING Doc. & Impl.	CATERING PERSONNEL Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
<b>1000</b>	<b>GENERAL</b>																										
<b>1100</b>	<b>Data Monitoring and Recording Equipment / Data Providing Services</b>																										
1100.1	For ships constructed before 01/07/2002, is the vessel equipped with a "full" VDR?															0 10											
1100.2	Is the vessel equipped with a CCTV system, which has cameras located in <u>open deck spaces</u> ?															0 5											
1100.6	Is the vessel equipped with a CCTV system, which has cameras located in <u>engine room</u> ?															0 5											
1100.7	Is the vessel equipped with a CCTV system, which has cameras located in <u>cargo spaces</u> ?															0 5											
																<b>Total score</b> 0 25											
																<b>Minimum ranking score required for element 1100 = 0</b>											
<b>1200</b>	<b>Enclosed Space Entry &amp; Hot Work</b>																										
1200.1	Is there an Enclosed Space Entry and Hot Work permit to work system, taking account of IMO and industry guidelines and where relevant local port / terminal requirements?															0 10											
1200.6	Is company approval of the Hot Work permit required before work can begin?															0 10											
1200.7	Does the Hot Work permit show the appropriate safety precautions to be taken relevant to the location of work?															0 5											
1200.2	Is crew on board provided with suitable personal protective equipment and suitable equipment for testing the atmosphere of an enclosed space? (e.g. breathing apparatus, protective clothing and approved + calibrated atmosphere testing equipment)															0 5											
1200.8	Are all personnel entering an enclosed space provided with a personal gas detector which can measure HC, oxygen and relevant toxic vapours?															0 10											
1200.9	Is a safety meeting, attended by all personnel involved, held prior to entering the space or commencement of hot work in order to review procedures and PPE (including those specific for the intended work) ?															0 10											
1200.10	Is a responsible officer designated for all aspects of the operation?															0 5											
1200.3	Is ship's crew trained and drilled periodically according to enclosed space entry procedures ?															0 5											
1200.4	Does training also include rescue and first aid?															0 5											
1200.11	Is a rescue / back-up team assigned and ready for immediate action upon call?															0 5											
1200.5	Are operational spaces (e.g. side-passages or compressor rooms) identified which are subject to enclosed space entry procedures?															0 10											
																<b>Total score</b> 0 80											
																<b>Minimum ranking score required for element 1200 = 80</b>											
<b>1300</b>	<b>Compressor for the refilling of air cylinders for breathing apparatus or Alternative, Additional Green Award requirement</b>																										
1300.1	Does the vessel have a compressor for the refilling of air cylinders for breathing apparatus?															0 20											
1300.2	<b>Alternative to 1300.1:</b> sufficient number of air cylinders for the sole purpose of safety drills.															0 10											
																<b>Total score</b> 0 20											
																<b>Minimum ranking score required for element 1300 = 10</b>											

<b>CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2019</b>																						
Revision Code	Norm Item		<b>RANKING</b> Ship - LNG																RANKING SCORE	RANKING MAX. SCORE		
			MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING	Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl.	NOT APPLICABLE			
	<b>1400</b>	<b>Control of drugs &amp; alcohol onboard</b>	0						0								0			0	20	
M/RR	1400.2	Is evidence of an unannounced alcohol testing initiated by the office available on board? (Approved test equipment to be available on board)																		0	10	
M/RR	1400.1	Have all current crew members been subjected to shore-based drug and alcohol testing at least once in last 12 months?																		0	5	
N	1400.5	Has the vessel been subjected to unannounced drug and alcohol testing at least once in 12 months by an external organisation?																		0	5	
N	1400.6	<b>Alternative to 1400.1 &amp; 1400.5:</b> In case crew members are not subject to shore-based drug and alcohol testing at least once in last 12 months, has the vessel been subjected to unannounced drug and alcohol testing at least twice in 12 months by an external organisation?																		0	10	
<b>Total score</b>																				0	20	
<b>Minimum ranking score required for element 1400 = 20</b>																						
	<b>1500</b>	<b>Emergency Response System</b>	0		0		0				0		0									
	1500.1	Is an emergency response system implemented (an internal response system or external service from an IACS class member?)																		0	25	
	1500.2	Are documents, procedures, instructions available?																		0	10	
	1500.3	Are senior officers familiar with the ERS-procedures?																		0	15	
	1500.4	Is the vessel in receipt of evaluation reports of the annual ERS drill(s) between company, (class) and vessel?																		0	5	
	1500.11	Is the evaluation report of the annual ERS drill discussed in a safety meeting?																		0	10	
	1500.5	Is an annual drill performed on board which includes ERS-procedures?																		0	15	
<b>Total score</b>																				0	80	
<b>Minimum ranking score required for element 1500 = 60</b>																						

CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2019																										
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			Doc. & Impl.	Doc. & Impl.	Doc. & Impl.	Doc. & Impl.	Doc. & Impl.	Doc. & Impl.	Doc. & Impl.	Doc. & Impl.																
	<b>1600</b>	<b>Computer Systems, Networks, Data Security and Training.</b> GA requirement															0									
	1600.1	Are arrangements for vessel systems documented ? (configuration scheme)															0	10								
	1600.7	Are adequate system back-up's for vessel computer-based systems made (where applicable) and are procedures for this documented ?															0	5								
	1600.8	Are adequate back-ups for administrative PC systems made and are procedures for this documented ?															0	5								
	1600.3	Is training provided at a level required to effectively operate and maintain the system and cover normal, abnormal and emergency conditions?															0	10								
	1600.4	Is the internal audit scheme applicable to the IT elements and vessel computer-based systems?															0	10								
	1600.5	Are computer systems, in relation to IMO MSC/Circ.891, certified by a recognised organisation?															0	10								
	1600.6	Is a system administrator designated onboard for administrative PC systems on the ship?															0	10								
																	0	60								
			Total score													0	60									
			Minimum ranking score required for element 1600 = 30																							
N	<b>1610</b>	<b>Cyber Risk Management</b>																								
N	1610.1	Is shipboard crew aware of plans and procedures of cyber risk management and their implementation on board?															0	10								
N	1610.4	Does the cyber risk policy focus on elements such as third-party access and bring your own device (BYOD) in the office?															0	5								
N	1610.5	Is there a designated shipboard crew member on board appropriately trained to identify and respond to cyber threats to the ship's information and operational technology systems?															0	5								
																	0	20								
			Total score													0	20									
			Minimum ranking score required for element 1610 = 10																							
	<b>1700</b>	<b>Noise and Vibration Management</b>																								
		<b>Noise/Vibration Monitoring and Measures</b>																								
	1700.2	Is the crew wearing hearing protectors which meet the requirements of the HML(High-Medium-Low) method (ISO 4869-2:1994) when entering spaces where noise levels exceed 85db(a)?													na	0	0									
	1700.3	Does the PMS have the routine to inspect and rectify any abnormalities in terms of noise and vibration from a machinery equipment ?															0	5								
	1700.4	Are appropriated measures implemented onboard in order to protect the crew from cargo handling equipment noise if the noise exceeds 85db(a) (by taking into account technical solutions and/or exposure limits)?															0	10								
		<b>Noise Mitigation and Health Hazards</b>																								
	1700.8	Is the noise exposure limit of each rating/officer recorded and available onboard?															0	5								
	1700.9	Is the crew restricted towards prolonged exposure in spaces where noise limits exceed 110 db(a)?															0	5								
	1700.10	Are all engine exhaust pipes insulated with ship specific suitable silencers to attenuate noise?															0	5								
	1700.11	Is the ship installed with noise cancelling equipment such as active mufflers/mounts, resilient mounts, vibration dampers where practically possible?															0	10								
	1700.12	Are noise cancelling measures such as mineral wool/silencers being installed in the ventilation ducts or fan rooms to reduce the noise level?															0	10								
																	0	50								
			Total score													0	50									
			Minimum ranking score required for element 1700 = 15																							


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			Total score										0	10																	
1710	<b>Underwater Noise and Vibration Management</b>																														
1710.1	Were any measures implemented periodically to reduce cavitation from propeller?																											0	5		
1710.4	Does the ship opt for re-routing or slow steaming where possible and practicable to protect whale sensitive areas?																											0	5		
										Total score										0	10										
Minimum ranking score required for element 1710 = 0																															
2000	<b>NAVIGATION / BRIDGE OPERATIONS</b>																														
2100	<b>Navigation</b>															0	0	0													
2100.3	Does the voyage or passage plan include contingency planning?																										0	10			
2100.6	Is the vessel automatically supplied with new hydrographic publications?																										0	10			
2100.7	Is the vessel electronically updated for hydrographic publications? (eg. Temporary and Preliminary NtM)																										0	10			
2100.8	Is navigational equipment included in the electronic Planned Maintenance System?																										0	10			
2100.9	Are masters entitled to use non-compulsory pilot services? (must be stated in a company procedure)																										0	20			
2100.13	Is the vessel using weather routing services while on long haul voyage?																										0	10			
2100.18	Is the vessel enrolled in a meteorological & oceanographic service in a form of a software application?																										0	10			
2100.19	<b>Alternative to 2100.18:</b> Does the vessel have a capability to receive comprehensive weather information from the office or from coastal stations / platforms?																									0	5				
2100.15	Is the vessel equipped with the multi constellation GNSS receiver?																											0	10		
2100.16	Is the vessel equipped with the eLoran receiver?																											0	10		
2100.17	Is the position for all stages of voyage compared with a different method of positioning than GPS?																											0	20		
										Total score										0	120										
Minimum ranking score required for element 2100 = 40																															
2111	<b>Electronic chart display &amp; information systems / ECDIS</b>																														
<b>Applicable to ships for which carriage of ECDIS is compulsory</b>																															
2111.4	Is ECDIS hardware maintained and software updated?																										0	5			
2111.5	Is ECDIS tested according to the IHO ECDIS data presentation and performance check with a use of test data set after every update of the software (including back up)?																											0	5		
2111.6	Is the crew regardless of the generic training familiarized with the ECDIS unit(s) installed onboard according to the Industry Recommendations for ECDIS Familiarisation?																												0	15	
2111.7	Have all the officers completed structured ECDIS training(s) on top of the generic training (besides the familiarization onboard in R2111.6)?																												0	5	
2111.10	Does the voyage planning include checking if all needed charts are up-to-date (latest edition official chart updated an corrected to the latest available updates and NtM)?																												0	5	
2111.11	Does the ECDIS procedure suggest display settings (layers) of ECDIS for various navigation conditions (arrival / departure - coastal - deep sea)?																													0	10
2111.12	Does the vessel have a basic folio of paper charts (in case second ECDIS is a back up system)?																												0	10	
										Total score										0	55										
Minimum ranking score required for element 2111 = 30																															
2120	<b>Fuel Change Over / Ballast Water Exchange</b>															0	0	0													
2120.1	Does the voyage plan (checklist) include when fuel change over <u>should</u> be carried out?																												0	10	
2120.2	Does the voyage plan (checklist) include when ballast water exchange <u>can</u> be carried out?																													0	10
										Total score										0	20										
Minimum ranking score required for element 2120 = 20																															

CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2019																	
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<b>2200</b>	<b>Helicopter / Ship Operations</b>																
2200.1	Are crew members who are involved in helicopter/ship operations trained in standards and procedures?														0	10	
2200.2	Is an action plan in case of a helicopter accident available?														0	10	
											<b>Total score</b>		0	20			
											Minimum ranking score required for element 2200 = 20						
<b>2300</b>	<b>Mooring Operations</b>																
2300.1	Does the company give procedures/instructions for mooring/unmooring operations?														0	10	
2300.2	Is new crew familiar with the operation and capabilities of the ship's mooring equipment?														0	10	
2300.3	Are specific mooring plans which have been used at certain terminals recorded?														0	20	
2300.4	Is a drawing of the mooring arrangement readily available on the bridge?														0	10	
											<b>Total score</b>		0	50			
											Minimum ranking score required for element 2300 = 30						
<b>3000</b>	<b>MACHINERY / ENGINE OPERATIONS</b>																
<b>3100</b>	<b>Bunker Operations</b>																
3100.1	Does the company MS specify a safe-maximum percentage fill for bunker tanks? (max. limit 95%)														0	10	
3100.2	Is a checklist used for bunker operations (company format) ?														0	10	
3100.3	Does the bunker procedure include a bunker plan (company format) ?														0	10	
3100.4	Are there procedures/instructions for the internal transfer of fuel oil between main storage tanks?														0	10	
3100.5	Is there an instruction that all persons involved are to be familiar with the intended bunker operation and/or internal transfer operation and their duties?														0	10	
											<b>Total score</b>		0	50			
											Minimum ranking score required for element 3100 = 50						
<b>3200</b>	<b>Fuel Oil Testing, Bunker Alerts, Marpol Bunkering Requirements &amp; Additional Green Award requirements</b>																
3200.1	Is bunkered fuel oil always tested (before use onboard) by a recognised fuel analysis organisation ashore according to the latest edition of ISO 8217 ?														0	40	
3200.5	Are global bunker quality alerts received onboard from company fleet experience & from the fuel analysis organisation ?														0	10	
3200.7	Is a material safety data sheet for the bunkered fuel received onboard from the bunker supplier ?														0	10	
3200.8	Is the vessel in receipt of a Bunker Delivery Note for every bunker delivery in accordance with MARPOL Annex VI ?														0	10	
3200.9	Are all fuel sample bottles (Marpol and quality test sample) stored in an appropriate safe location sheltered from elevated temperatures ?														0	5	
3200.10	Is a documentary record system for bunker samples and related bunker delivery notes implemented ?														0	5	
3200.11	Are all fuel oil sampling procedures in accordance with the latest edition of Gibraltar Port Authority Bunkering Code of Practice and Marpol Annex VI ?														0	10	
3200.12	Is the vessel provided with a line-sampler?														0	10	
											<b>Total score</b>		0	100			
											Minimum ranking score required for element 3200 = 70						


CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2019																										
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<b>4000</b>	<b>CARGOES / CARGO OPERATIONS</b>																									
<b>4100</b>	<b>LNG Carrier Cargo Operations &amp; Additional Green Award requirements</b>																									
4100.1	Is it company procedure that the ship shore safety checklist has to be used before loading/unloading operations?														0	5										
4100.2	Does the company give instructions regarding access on board to unauthorised persons?														0	10										
4100.4	Does the company give procedures/instructions in relation to the entire cargo operations?														0	5										
4100.7	Are there procedures to ensure that a sufficient number of personnel is available in case of emergency during port stay?														0	10										
4100.10	Is there an effective deck watch in attendance on deck during cargo operations?														0	5										
4100.11	Is a plan for the intended cargo operations available?														0	5										
4100.12	Is a terminal emergency plan available on board? (CCR)														0	5										
4100.13	Are pre-arrival checks completed 2 days and 1 day before, and upon arrival at load-port or discharge-port?														0	20										
4100.14	Are the two ESD1 tests carried out before commencing cargo operations (one test activated by ship & one test activated from shore)?														0	10										
4100.15	Are cool down operations performed to procedure?														0	10										
4100.16	Are CTS documents taken before commencing and after finishing cargo operations?														0	5										
															0	90										
															Minimum ranking score required for element 4100 = 80											
<b>4200</b>	<b>Ship to Ship Transfer Operations</b>																									
4200.1	Is a STS safety drill carried out not more than seven days preceding a STS transfer operation?														0	10										
4200.4	<b>Alternative to 4200.1: (for vessels not engaged in regular STS operations)</b> In case the ship is ordered to lighter, are there procedures / guidelines in the SMS to familiarise relevant crew members with the STS safety drill & is there an instruction to carry out the drill not more than 7 days before commencing operations?														0	10										
4200.2	<b>Also for vessels not engaged in regular STS operations in case the ship is ordered to lighter:</b> Are the checklists as described in the Ship to Ship Transfer Guide available for use?														0	10										
4200.3	<b>Also for vessels not engaged in regular STS operations in case the ship is ordered to lighter:</b> Are company guidelines available to develop (or assess) a STS contingency plan, including all possible risks and actions to be taken to avoid emergencies? (Plan should take the geographical location of the operation, local requirements & support in local area into account. Plan must be agreed between both vessels and local organisers)														0	10										
															0	30										
															Minimum ranking score required for element 4200 = 30											
<b>4400</b>	<b>Additional Green Award Requirements (tank alarms, coatings, etc.)</b>																									
4400.1	Is the measuring system for cargo, bunker and ballast tanks on line with the loadicator?														0	20										
4400.2	Are all cargo tanks' measuring system fitted with high and high-high level alarms?														0	20										
4400.3	Is each cargo tank fitted with an independent overfill alarm?														0	10										
															0	50										
															Minimum ranking score required for element 4400 = 40											
<b>4700</b>	<b>LNG Sloshing Load Monitoring System</b>																									
4700.1	Does the vessel have an LNG sloshing load monitoring system which provide real-time information with readouts both in the CCR and on the bridge?														0	50										
															0	50										
															Minimum ranking score required for element 4500 = 0											





CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2019																												
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<b>5000</b>	<b>PREVENTION OF POLLUTION</b>																											
<b>5200</b>	<b>Waste Management / Garbage Handling Onboard</b>																											
5200.15	Is the personnel responsible for collection, storage, processing and disposal of garbage designated and familiarized?																									0	5	
5200.16	Has the crew completed training/education programme in relation to garbage management?																										0	5
5200.20	Are the crew aware that plastic should not be incinerated?																										0	10
5200.21	Is there a procedure available onboard on sorting out of reusable and recyclable material?																										0	5
5200.22	Are all reusable and recyclable material always delivered to the port reception facilities or reused onboard?																										0	5
5200.23	Is there a list of hazardous garbage available onboard (based on the current GESAMP list)?																										0	5
5200.24	Is there a procedure available onboard on storing/handling of hazardous garbage? (carcinogenic, mutagenic and reprotoxic substances)																										0	5
5200.28	Are non harmful cleaning agents and additives used for cleaning the deck and external surfaces?																										0	10
5200.12	Are verifiable efforts made onboard to minimize the amount of chemicals?																										0	5
	<b>Garbage Collection</b>																											
5200.31	Are all collection garbage receptacles for all categories of garbage labelled/marked ?																										0	5
	<b>Garbage Processing</b>																											
5200.4	Is the vessel equipped with compactor to reduce the volume of garbage?																										0	5
5200.37	Is the vessel equipped with a waste shredder?																										0	5
	<b>Galley Equipment</b>																											
5200.11	Is the vessel equipped with grinder/comminutor for food waste ?																										0	5
5200.32	Is the grinder/comminutor also used beyond 12 nautical miles from the nearest shore as they hasten assimilation into the marine environment ?																										0	5
5200.33	Is the discharge from comminutors directed to a holding tank while the vessel is operating in special areas?																										0	5
5200.34	Is the vessel equipped with a refrigerated compactor / airconditioned space for food waste stowage?																										0	5
5200.35	Is the vessel equipped with a grease separator?																										0	5
	<b>Garbage Storage</b>																											
5200.9	Is there a designated space for long term stowage of garbage (except food waste)?																										0	10
5200.36	Is the vessel equipped with containers for chemical waste?																										0	5
	<b>Garbage Disposal</b>																											
5200.10	Is all operational waste delivered ashore where reception facilities are available in order to minimise shipboard incineration and to reduce personnel exposure to toxic gases?																										0	10
5200.25	Are all incinerated ashes and clinkers always delivered to the port reception facilities?																										0	5
5200.30	Is packaging material taken by a supplier?																										0	5
																											0	130
Total score																								0	130			
Minimum ranking score required for element 5200 = 55																												


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	<b>5300</b>	<b>Cargo Vapour Emission Control Systems</b>																									
	5300.6	Is there documented instruction for operational use of the installed system(s)?																0	10								
	5300.7	Is the crew familiarised with the system(s)?																0	20								
	5300.8	Is the vessel capable to use Boil-Off Gas as fuel for main-propulsion?																0	20								
	5300.9	Is the vessel fitted with Gas Combustion Unit to process excess Boil-Off Gas?																0	10								
	5300.10	Is the vessel's cargo weather decks and tank domes painted in a light colour to reduce Boil-Off Gas?																0	20								
	5300.11	Is the vessel's staff aware of vessel's critical speed vs UKC which can increase Boil-Off Gas?																0	5								
	5300.12	Does the company have additional procedures in place to avoid venting of Boil-Off Gas to atmosphere?																0	20								
																		0	105								
			<b>Total score</b>																								
			Minimum ranking score required for element 5300 = 70																								
	<b>5400</b>	<b>Management of Ship Engine Emissions</b>																									
	5400.1	Is the emission of NOx for the main engine less than 17.0 g/KWh?																0	10								
	5400.16	Is the emission of NOx for the auxiliary engines less than the applicable Marpol limit in Annex VI Reg 13.3 a) ?																0	10								
	5400.4	Is an International Air Pollution Prevention certificate issued for the vessel?																0	10								
	5400.10	Is the vessel arranged with an approved monitoring & recording system for NOx ?																0	30								
	5400.11	Is the vessel arranged with a monitoring & recording system for SOx ?																0	20								
	5400.12	Is the vessel arranged with a monitoring & recording system for CO2 ?																0	20								
	5400.13	Is the vessel arranged with a monitoring & recording system for particulate matter ?																0	30								
	5400.14	Is the above data forwarded to the company on a regular basis? (minimum quarterly)																0	10								
																		0	140								
			<b>Total score</b>																								
			Minimum ranking score required for element 5400 = 10																								
	<b>5420</b>	<b>Sulphur Content of Fuel</b>																									
	5420.8	Is the ship's highest consumed sulphur content of HFO <u>3.00%</u> or lower based on fuel quality test results? (in the last one year since this survey date)? (GA Requirement)																0	5								
	5420.9	Is the ship's highest consumed sulphur content of HFO <u>2.43%</u> or lower based on fuel quality test results? (in the last one year since this survey date)? (GA Requirement)																0	15								
	5420.10	Is the ship's highest consumed sulphur content of HFO <u>1.50%</u> or lower based on fuel quality test results? (in the last one year since this survey date)? (GA Requirement)																0	30								
	5420.5	Does the ship <b>voluntarily</b> use low sulphur fuel (max. 0.50% sulphur) or an approved exhaust gas cleaning system <b>during every port approach around the world?</b> <i>If exhaust gas cleaning system used, sulphur content is measured with SO2:CO2 ratio. Ratio of max. 21.7 is equal to 0.50% sulphur content.</i>																0	40								
	5420.6	Does the ship <b>voluntarily</b> use low sulphur fuel (max. 0.50% sulphur) or an approved exhaust gas cleaning system <b>at anchor and during every port stay around the world?</b> <i>If exhaust gas cleaning system used, sulphur content is measured with SO2:CO2 ratio. Ratio of max. 21.7 is equal to 0.50% sulphur content.</i>																0	50								
																		0	140								
			<b>Total score</b>																								
			Minimum ranking score required for element 5420 = 0																								
	<b>5460</b>	<b>Environmental Ship Index (ESI)</b>																									
	5460.2	Does the ship participate in the Environmental Ship Index (ESI) and are ESI points above 30?																0	20								
	5460.3	Does the ship participate in the Environmental Ship Index (ESI) and are ESI points above 40?																0	20								
	5460.4	Does the ship participate in the Environmental Ship Index (ESI) and are ESI points above 50?																0	20								
																		0	60								
			<b>Total score</b>																								
			Minimum ranking score required for element 5460 = 0																								

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			<b>5500</b>	<b>Sewage Management</b>																		
	<b>Alternative 1: Sewage Treatment Plant</b>																					
5500.1	Is the sewage treated with a sewage treatment plant which uses minimal or no use of harmful chemicals?																			0	20	
5500.2	Is the treated discharged effluent from the sewage treatment plant collected for sampling periodically for testing?																			0	15	
5500.3	Is the ship in possession of the periodical effluent tested sample reports?																			0	15	
5500.8	Is the sewage treatment plant regularly checked and maintained as per manufacturer's guidelines?																			0	15	
	<b>Alternative 2: Sewage comminuting and disinfecting system</b>																					
5500.5	Is the comminuted and disinfected sewage collected for sampling periodically for testing results?																			0	10	
5500.9	Is the comminuting and disinfecting system regularly checked and maintained as per manufacturer's guidelines periodically?																			0	10	
	<b>For all ships: Sewage Holding Tank</b>																					
5500.7	Is the sewage holding tank regularly checked and maintained?																			0	5	
																				0	70	
			<b>Total score</b>																			
																				0	70	
			Minimum ranking score required for element 5500 = 5																			
<b>5510</b>	<b>Grey Water Management</b>																					
5510.1	Is the sewage treatment plant capable of treating grey water before being discharged?																			0	15	
5510.2	Is the grey water never discharged within the coastal and port areas?																			0	10	
																				0	25	
																				0	25	
			Minimum ranking score required for element 5510 = 0																			
<b>5700</b>	<b>Ballast Water Management</b>		O		O		O															
5700.1	Are there ship-specific procedures/instructions (flag-approved according to IMO guidelines) for the control and management of ballast water on board?																			0	10	
5700.2	Does the ship have any additional system / equipment to reduce harmful aquatic organisms and pathogens in ballast water? (e.g. UV-filtering system, heating system, filters etc.) (System is to be flag-approved according to IMO guidelines)																			0	40	
5700.3	Is the master aware of regional/local ballast water requirements?																			0	5	
5700.4	Is relevant crew properly familiarised with operational & safety aspects of ballast water management?																			0	10	
5700.5	Are tasks & responsibilities of shipboard personnel assigned to ballast water exchange operations defined, documented & controlled ?																			0	10	
5700.6	Is the master aware of cases where the ship cannot reasonably be expected to carry out ballast water exchange?																			0	5	
5700.7	Are sediment volumes monitored & recorded ?																			0	10	
5700.8	Does sediment disposal take place in port (to sediment reception facility) or at sea (more than 200nm from land and at depth greater than 200m) ?																			0	10	
	<b>Alternative to 5700.1 - 5700.8</b>																					
5700.9	Ship has official exemption from a party to the BW Convention (registration in BW record book and / or documented authorisation)																					
																				0	100	
			<b>Total score</b>																			
																				0	100	
			Minimum ranking score required for element 5700 = 50																			


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				<b>5800</b>	<b>Accidental Bunker Oil Pollution Prevention Measures (overflow prevention systems)</b>									0									
	5800.4	Are all fuel oil bunker tanks fitted with a high level alarm?																			0	5	
	5800.5	Are all fuel oil bunker tanks fitted with a high-high level alarm?																			0	5	
	5800.6	Are all fuel oil bunker tanks fitted with an overflow line that is connected to an overflow tank which is arranged with a level alarm?																			0	5	
	5800.7	Are all fuel oil bunker tank overflow lines connected to an overflow tank and are they arranged with a flow alarm?																			0	10	
	5800.8	Are high level alarms and/or (over) flow alarms given on the location where the person in charge of the bunkering or transfer operation will normally be located?																			0	5	
																					0	30	
			Total score																				
			Minimum ranking score required for element 5800 = 15																				
	<b>5801</b>	<b>Protective location of fuel and lubrication oil tanks</b>									0										0	70	
	5801.1	Are any tanks intended for fuel-oil or other substances, with a minimum capacity of 20m³, constructed at least B/15 or 2 metres above the keel level ?																			0	10	
	5801.2	Are tanks for fuel oil protected by a double side ? (for ships below 20,000gt, width of double side to be at least 0.76m ; for 20,000gt and above, width to be at least 2 metres)																			0	40	
	5801.3	Are all lubrication oil tanks constructed at least 0.76 metres above the keel line ?																			0	20	
																					0	70	
			Total score																				
			Minimum ranking score required for element 5801 = 20																				
		<b>Lubrication and Use of Oils (Element nr.: 5810, 5811 &amp; 5812)</b>																					
	<b>5810</b>	<b>Stern tube lubrication</b>			0						0	0											
	5810.1	Is the vessel fitted with a class approved stern tube <u>water</u> lubricated system which uses <u>sea water</u> as a lubricant? (system includes water conditioning and monitoring equipment)																			0	60	
	5810.6	<b>Alternative for 5810.1, 5810.3, 5810.4 and 5810.5</b> Is the vessel fitted with a class approved stern tube water lubricated system which uses <u>fresh water</u> as a lubricant? (system includes water conditioning and monitoring equipment) *Additives used to maintain the condition of the water should be environmentally friendly.																			0	50	
	5810.3	<b>Alternative for 5810.1 and 5810.6:</b> Is the vessel fitted with a class approved stern tube lubrication system with an <u>air type</u> or <u>void space seal</u> ?																			0	25	
	5810.4	<b>Alternative for 5810.1 and 5810.6:</b> Does the vessel use a stern tube lubricant that is certified according to the EAL/EEL or equivalent?																			0	15	
	5810.5	<b>Alternative for 5810.1 and 5810.6:</b> Is the crew aware of characteristics of the environmentally friendly stern tube lubricant (EAL/EEL certified or equivalent) with respect to maintenance & its effect on the system if needed? (e.g. condition of seals & filters, temperature & condition of oil etc.)																			0	5	
																					0	60	
			Total score																				
			Minimum ranking score required for element 5810 = 15																				

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				Doc. & Impl.		Doc. & Impl.		Doc. & Impl.		Doc. & Impl.		Doc. & Impl.		Doc. & Impl.		Doc. & Impl.			Doc. & Impl.			
<b>5811</b>	<b>Mooring wire lubrication</b>																					
<b>5811.1</b>	Does the vessel use a mooring wire lubricant / grease that is certified according to the EEL?																				0	20
<b>Total score</b>																					0	20
<b>Minimum ranking score required for element 5811 = 0</b>																						
<b>5812</b>	<b>Deck equipment lubrication (use of oils)</b>																					
<b>5812.1</b>	Does the vessel use grease that is certified according to the EEL (all deck equipment)?																				0	15
<b>5812.2</b>	Does the vessel use gear oil that is certified according to the EEL (all deck equipment)?																				0	10
<b>5812.3</b>	Does the vessel use hydraulic oil that is certified according to the EEL in mooring and anchor appliances?																				0	10
<b>5812.4</b>	Does the vessel use hydraulic oil that is certified according to the EEL in crane appliances?																				0	10
<b>5812.6</b>	Is the crew aware of characteristics of environmentally friendly lubricants (EEL certified) with respect to maintenance & their effect on the applicable system if needed? (e.g. condition of seals & filters, temperature & condition of oil, prevention of humidity ingress etc.)																				0	10
<b>Total score</b>																					0	55
<b>Minimum ranking score required for element 5812 = 0</b>																						
<b>5820</b>	<b>Management of bilge water and sludge handling onboard</b>																					
<b>5820.1</b>	Is there a list of permitted chemicals and detergents used in machinery spaces available onboard in order to make ship crew familiar with the emulsifying characteristics in the ER bilge and sludge systems?																				0	5
<b>5820.2</b>	Is the engineer responsible for the bilge water management and sludge handling provided with a training program by the ship manager? (Training includes: bilge water system and sludge handling, use and disposal of chemicals and detergents available onboard and the problems related to bilge water and sludge separation)																				0	5
<b>5820.3</b>	Is an onboard familiarisation checklist for the engine room personnel including sludge and bilge water management available?																				0	5
<b>5820.4</b>	Is all ER personnel familiar with the tanks in which the ER drip trays, drains, scuppers, gutters are connected to (In order to ensure that these substances are collected in the right tanks)?																				0	5
<b>Total score</b>																					0	20
<b>Minimum ranking score required for element 5820 = 15</b>																						


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				<b>5821</b>	<b>Outfitting of bilge water system</b>	<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						
		<b>Clean Drains (Drains that are <u>normally not</u> contaminated by oil)</b>																				
	<b>5821.1</b>	Does the bilge water from the Clean drain tank (for the collection of "clean drains" As per MEPC.1/Circ.642) pass through the Oily Water Separator with a Bilge Alarm (As per Marpol Annex 1)?																		0	5	
		<b>Soot Collection Tank arrangement</b>																				
	<b>5821.10</b>	Is washwater from the economizer/boilers collected in a Soot separation / collection tank?																		0	5	
	<b>5821.11</b>	Is a dedicated or independent pump arrangement available for the discharge from the Soot separation / collection tank to overboard?																		0	5	
	<b>5821.2</b>	Are management instructions regarding disposal of soot and soot-water mixtures available onboard?																		0	5	
		<b>Oily bilge water tank arrangement</b>																				
	<b>5821.12</b>	Is all Oily bilge water from the bilge wells/drains transferred to the Bilge Primary Tank or pre-separation system for pre-separation of oil and water?																		0	5	
	<b>5821.13</b>	Is an Oily bilge water holding tank (Oily bilge water storage tank) available for the storage of oily bilge water?																		0	10	
	<b>5821.3</b>	Is there a (floating) oil skimmer or equipment in the (oily) Bilge water holding tank or Bilge Primary Tank for effective and safe removal of sludge at the surface of the tank?																		0	10	
	<b>5821.5</b>	Is Oily bilge water from the Oily bilge water holding tank pumped through the Oily Water Separator to the Clean water tank?																		0	5	
	<b>5821.14</b>	Is Clean water from the Clean water tank pumped via an Oily Water Separator with Oil Content Meter (in compliance with Marpol Annex I)?																		0	5	
		<b>Oil content meter</b>																				
	<b>5821.6</b>	Is the oil content meter with an automatic stopping device capable of measuring the difference between emulsifying particles and oil installed, as per IMO resolution MEPC.107(49)?																		0	5	
	<b>5821.7</b>	Is there equipment (e.g. White Box) installed that stops the Oily Water Separator from discharging overboard when the Oil Content Meter is flushed/diluted with clean water.																		0	10	
	<b>5821.15</b>	Is the authority for operating and maintaining the Oily Water Separator and Oil Content Meter with the master or this is automatically logged in the system?																		0	5	
	<b>5821.8</b>	Is the Oily Water Separator equipped with a re-circulating facility for testing the device with the closed overboard discharge (As per IMO resolution MEPC.107(49) 6.1.1.) ?																		0	5	
		<b>5821.9 is an alternative to 5821.1 - 5821.15 (all the above)</b>																				
	<b>5821.9</b>	Is all the bilge water from machinery spaces always delivered to reception facilities?																		0	80	
																				<b>Total score</b>	<b>0</b>	<b>80</b>


Minimum ranking score required for element 5821 = 20

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			<b>5822</b>	<b>Outfitting of sludge handling system</b>																		
5822.1	Is a sludge collecting pump installed (with the sole purpose of collecting the sludge from different ER tanks to the Oil Residue (Sludge) Tank)?																				0	5
5822.2	Is a sludge discharge pump installed with the purpose of discharging the sludge to reception facilities (with sufficient capacity to discharge the sludge within 8 hrs)																				0	5
5822.8	Is a tank or system installed with the sole purpose of removing large quantities of water from the sludge?																				0	5
5822.9	Is a separate tank or system installed with the sole purpose of evaporating water from the sludge?																				0	5
5822.10	Is a separate tank or system installed with the purpose of mixing the sludge while incinerated (in incinerator or boiler).																				0	5
5822.4	<u>Alternative 1 to 5822.8 - 5822.10 and 5822.5 - 5822.6</u> Is the incinerator capable to incinerate sludge containing more than 25% of water and certified to the standard of IMO MEPC.76(40) as amended by MEPC.93(45)																				0	15
5822.5	<u>Alternative 2 to 5822.8 - 5822.10 and 5822.4 and 5822.6</u> Is a sludge decanter installed with the purpose of consuming the sludge as a fuel.																				0	25
5822.6	<u>Alternative 3 to 5822.8 - 5822.10 and 5822.4 - 5822.5</u> Is all the ship sludge always delivered to reception facilities?																				0	20
	<u>Alternative 4 (5822.7) to 5822.1 - 5822.2 and 5822.8 - 5822.10 and 5822.4 - 5822.6 (all the above)</u>																				0	25
5822.7	Is the sludge production limited due to not using HFO as a fuel?																				0	25
																					0	35
			<b>Total score</b>																			35
			<b>Minimum ranking score required for element 5822 = 5</b>																			
<b>5900</b>	<b>Ship Recycling - Inventory of Hazardous Materials</b>																					
5900.10	Does the vessel have an "Inventory of Hazardous Materials" (Part I completed) or a "Green Passport"?																				0	110
5900.11	<u>Alternative to 5900.10 and 5900.3:</u> Is objective evidence available onboard that the "Inventory of Hazardous Materials" has been initiated beyond Step 1 of Part I?																				0	70
5900.3	<u>Alternative to 5900.10 and 5900.11:</u> Is objective evidence available onboard that as a minimum Step 1 of Part I of the "Inventory of Hazardous Materials" has been initiated?																				0	30
																					0	110
			<b>Total score</b>																			110
			<b>Minimum ranking score required for element 5900 = 0</b>																			
<b>6000</b>	<b>MAINTENANCE / SURVEYS</b>																					
<b>6100</b>	<b>Programme of Inspections</b>																					
6100.1	Does the ship have an internal technical inspection programme?																				0	10
6100.2	Are relevant previous survey and internal technical inspection reports available on board?																				0	10
6100.3	Does the ship have a repair history?																				0	10
6100.4	Does the company issue procedures/instructions for hull / ship's construction condition inspections to be carried out by the ship's personnel?																				0	20
6100.8	Is there a company procedure available for the assessment of cold-spots?																				0	10
																					0	60
			<b>Total score</b>																			60
			<b>Minimum ranking score required for element 6100 = 60</b>																			
<b>6110</b>	<b>Critical and Stand-by Equipment</b>																					
6110.5	Is a Computer Based Program installed to register failures, break downs and near misses in order to have a constant event report on the systems?																				0	10
6110.7	Is a Computer Based Program installed for spare parts management of critical equipment and stand-by equipment?																				0	10
6110.8	Is a safety stock available for critical equipment and stand-by equipment?																				0	10
																					0	30
			<b>Total score</b>																			30
			<b>Minimum ranking score required for element 6110 = 10</b>																			


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<b>6200</b>	<b>Mooring Equipment</b>		0		0				0											0	10		
6200.1	Are winch brake tests carried out and recorded at least once a year or after an excessive load?																			0	10		
6200.2	Is a winch brake test kit on board?																			0	5		
6200.3	Is an overview available with all details of mooring wires / fibre ropes, winches, inspections, maintenance, tests etc.?																			0	10		
6200.4	Is the ship provided with information on the design of the mooring system? (with examples to show the loads likely to be experienced under particular conditions and to illustrate those situations under which the limit of the system is likely to be reached)																			0	10		
6200.5	Are inspection, maintenance and discard criteria for mooring wires and tails / fibre ropes established and carried out by a competent person? (time interval for inspection should be in the PMS)																			0	10		
6200.8	Do these criteria take manufacturer's recommendations into account ?																			0	10		
6200.9	Does an additional examination take place after unusual events, such as long periods of inactivity, excessive loads, heat exposure, loading/discharge at swell ports, etc?																			0	5		
6200.10	Are internal inspections for wires + fibre ropes carried out & do these inspections take manufacturer's recommendations into account?																			0	10		
6200.11	Are the lubricants & cleaning products compatible with the wire and approved by the wire manufacturer?																			0	5		
6200.6	Is a log for "working days" of mooring wires and tails / fibre ropes maintained? (to predict the point of discard & for evaluation of wire/rope performance )																			0	10		
6200.7	Is an automatic wire rope lubricator in use on board?																			0	10		
6200.12	<b>Alternative to 6200.7:</b> (for fibre ropes) Are there procedures for care of fibre ropes?																			0	10		
			<b>Total score</b>																	0	95		
			<b>Minimum ranking score required for element 6200 = 65</b>																				
<b>6300</b>	<b>Corrosion Prevention of Seawater Ballast Tanks</b>				0						0									0	20		
6300.1	Are ballast tanks of double-hulled vessels, coated with a hard coating of a light colour?																			0	20		
6300.6	<b>Alternative to 6300.1</b> Are ballast tanks coated with dark epoxy maintained with a modified epoxy coating of a light colour, after safety benefit assessment is carried out?																			0	10		
6300.7	Is the coating approved according to the IMO performance standard? (type approval or statement of compliance according to Res. MSC 215(82) in Coating Technical File)																			0	20		
6300.2	Are ballast tanks maintained in a good condition?																			0	20		
6300.3	Are manufacturer's technical product data sheets and job specifications of the coatings on board?																			0	5		
6300.5	Is the corrosion prevention system, other than coating, included in the maintenance system?																			0	5		
			<b>Total score</b>																	0	70		
			<b>Minimum ranking score required for element 6300 = 40</b>																				



CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2019																						
Revision Code	Norm Item	 <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h2>RANKING</h2> <h3>Ship - LNG</h3> </div>	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING	Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE	
				<b>6400</b>	<b>Condition Assessment Program, Maintenance</b> Additional Green Award requirements	○		○						○								
	6400.1	Does the ship hold a CAP rating for <u>Hull</u> with Rating / Grade 2 as a minimum? (When the vessel reaches <u>20 years</u> of age, or by the <u>end of the 4th special survey</u> , whichever is earlier.)																			0	25
	6400.8	Does the ship hold a CAP rating for <u>Cargo Systems</u> with Rating / Grade 2 as a minimum? (When the vessel reaches <u>20 years</u> of age, or by the <u>end of the 4th special survey</u> , whichever is earlier.)																			0	20
	6400.9	Does the ship hold a CAP rating for <u>Machinery</u> with Rating / Grade 2 as a minimum? (When the vessel reaches <u>20 years</u> of age, or by the <u>end of the 4th special survey</u> , whichever is earlier.)																			0	20
	6400.2	<b>(Alternative to 6400.1, 6400.8 and 6400.9 above)</b> Is the ship less than 20 years of age or has not reached the end of the 4th special survey yet?																			0	25
	6400.3	Is it company policy that maintenance meetings are carried out on board? (e.g. each month and at (all) sections on board)																			0	10
	6400.4	Is a maintenance checklist used regarding the (monthly) maintenance inspection?																			0	10
	6400.5	Is an evaluation report of vessel's performance sent to the company?																			0	20
	6400.6	Is an annual technical report made by the Company's superintendent?																			0	15
																					0	120
			Total score																			
			Minimum ranking score required for element 6400 = 60																			
	<b>6500</b>	<b>Certificates for Cargo Gear</b>	○		○						○											
	6500.1	Is a register of cargo handling gear and lifting appliances issued? (CG1)																			0	10
	6500.2	Is a certificate of test and thorough examination of lifting appliances issued? (CG2)																			0	10
	6500.3	Is a certificate of test and thorough examination of loose gear issued? (CG3)																			0	10
	6500.4	Is a certificate of test and thorough examination of wire rope issued? (CG4)																			0	10
																					0	40
			Total score																			
			Minimum ranking score required for element 6500 = 40																			
	<b>7000</b>	<b>CREW</b>																				
	7200	<b>Extra personnel, Additional Green Award Requirement</b>	○								○											
	7200.1	Are there extra deck officers onboard in addition to what is required by minimum safe manning document?																			0	10
	7200.7	Are there extra engine officers onboard in addition to what is required by minimum safe manning document?																			0	10
	7200.2	Are there extra deck ratings onboard in addition to what is required by minimum safe manning document?																			0	10
	7200.8	Are there extra engine ratings onboard in addition to what is required by minimum safe manning document?																			0	10
	7200.3	Is there a ship administrator onboard (In addition to the standard complement and extra deck-officers and -ratings above) ?																			0	10
	7200.5	Is there a gas engineer onboard?																			0	10
	7200.6	Is there an electrical officer onboard in addition to the engine officers required by the safe manning document?																			0	10
																					0	70
			Total score																			
			Minimum ranking score required for element 7200 = 30																			


CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2019																						
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				<b>7300</b>	<b>Training / Courses for Personnel</b> , Additional Green Award Requirements & IMO Model Courses	0																
	7300.1	Has the 2nd officer (deck) completed an approved advanced training for liquefied gas tanker cargo operations? (As a minimum, the program should comply with STCW 2010 including Manila amendments Reg V/1-2)																			0	20
	7300.2	Are all onboard personnel trained and qualified according to the approved basic training for liquefied gas tanker cargo operations? (as STCW 2010 including Manila amendments Reg V/1-2) (If training comprises at least 3 months approved seagoing service on tankers (instead of an approved tanker familiarisation course) this should include onboard computer-based training (CBT) and a documented system showing participation and qualifications.)																			0	10
	7300.4	Have the lower ranking deck officers completed advanced fire fighting (IMO2.03) ?																			0	5
	7300.18	Have the lower ranking engine officers completed advanced fire fighting (IMO2.03) ?																			0	5
	7300.5	Has the onboard management completed the onboard assessment/train the trainer course (IMO 1.30)?																			0	5
	7300.6	Have the officers involved in cargo and ballast handling completed a simulator based training/course (IMO 1.36) ?																			0	10
	7300.7	Have the ship personnel completed "Marine Environmental Awareness" course (IMO 1.38)?																			0	5
	7300.8	Have all the deck officers completed bridge team management/bridge resource management training course (IMO 1.22) ?																			0	5
	7300.19	Have all the engine officers completed engine room resource management training course?																			0	5
	7300.20	<b>Alternative to 7300.8 &amp; 7300.19</b> Have all the officers completed maritime resource management course ?																			0	10
	7300.10	Is there a cadet currently onboard or has there been any in the last 6 months ?																			0	10
	7300.11	Has the gas engineer completed the advanced training for liquefied gas tanker cargo operations? (IMO 1.06)																			0	10
	7300.12	Have all the senior officers (Master, Chief Officer, Chief Engineer, 2nd Engineer and Gas Engineer) completed the Liquid Cargo Operations Simulator (LICOS) course as recommended by SIGTTO for senior officers and relevant to cargo containment type (Membrane or Spherical)?																			0	10
	7300.13	Have all the junior officers (2nd Officer, 3rd Officer, 3rd Engineer and 4th Engineer) completed the Liquid Cargo Operations Simulator (LICOS) course as recommended by SIGTTO for junior officers and relevant to cargo containment type (Membrane or Spherical)?																			0	20
	7300.17	Have all the officers completed Security Awareness Training?																			0	5
			<b>Total score</b>																	0	125	
			<b>Minimum ranking score required for element 7300 = 60</b>																			
	<b>7400</b>	<b>Familiarisation</b> , Additional Green Award Requirement	0		0		0		0		0		0		0		0					
	7400.1	Have all the ship board crew after a period of absence or leave has been provided with familiarization or changes with regard to the operations/machinery which is related to their position ?																			0	20
	7400.2	Have all newly employed/engaged shipboard crew (first ship for that specific company) been provided with familiarization with regard to operations/machinery which is related to their position ?																			0	20
	7400.3	Are the senior officers retained to sail on the same vessel or the same type of vessel (Membrane or Spherical)?																			0	10
	7400.6	Are the junior officers retained to sail on the same vessel or the same type of vessel (Membrane or Spherical)?																			0	10
	7400.4	Are the company format handover reports from all off - signing officers available onboard?																			0	10
	7400.7	Are the on-signers aware of the content of the hand-over reports?																			0	10
			<b>Total score</b>																	0	80	
			<b>Minimum ranking score required for element 7400 = 50</b>																			

**CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2019**

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			<b>7500</b>	<b>Safe Manning and Fatigue Management</b>		0																
7500.1	Are work/rest hours performed by the individual seafarer recorded with the use of a software programme?																				0	10
7500.3	Are the work/rest hours reports generated and are accessible for the office ?																				0	10
7500.2	Is the master provided with instruction/procedure to monitor and address non compliance on STCW 2010 Manila amendments on work/rest hours onboard ?																				0	10
7500.5	Does the ship have fatigue management plan available onboard to ensure the health and the well being of the seafarers ?																				0	10
7500.6	Is the fatigue management plan integrated with the safety management system ?																				0	5
7500.7	Does the ship have a procedure in which crew members are able to report on fatigue related issues ?																				0	5
7500.8	Is the fatigue management plan implemented onboard by the master?																				0	10
<b>Total score</b>																				0	60	
<b>Minimum ranking score required for element 7500 = 40</b>																						





CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2019																		
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			MASTER Doc. & Impl.	CHIEF OFFICER Doc. & Impl.	DECK OFFICER Doc. & Impl.	DECK RATING Doc. & Impl.	CHIEF ENGINEER Doc. & Impl.	ENGINEER OFFICER Doc. & Impl.	ENGINEER RATING Doc. & Impl.	CATERING PERSONNEL Doc. & Impl.	NOT APPLICABLE							
9411	<b>INSPECTION, MEASURING AND TEST EQUIPMENT</b>																	
9411.1	Is an overview of certificates of these apparatus available?															0	10	
<b>Total score</b>															0	10		
Minimum ranking score required for element 9411 = 10																		
9412	<b>INSPECTION AND TEST STATUS</b>																	
9412.1	Are working procedures available?															0	20	
9412.2	Is a status quo report of for example, coating of tanks available?															0	20	
<b>Total score</b>															0	40		
Minimum ranking score required for element 9412 = 40																		
9413	<b>CONTROL OF NON CONFORMING PRODUCT</b>																	
9414	<b>CORRECTIVE ACTION</b>																	
Included in ISM: see BASIC criteria																		
9415	<b>HANDLING, STORAGE, PACKAGING AND DELIVERY</b>																	
9415.1	Is a vessel generally checked in order to meet the customer's requirements?															0	20	
9415.2	Are cargo/product specifics received from the company / customer?															0	20	
9415.3	Is communication between charterer, office and ship effective?															0	20	
<b>Total score</b>															0	60		
Minimum ranking score required for element 9415 = 60																		
9416	<b>QUALITY RECORDS</b>																	
9417	<b>INTERNAL QUALITY AUDITS</b>																	
9418	<b>TRAINING</b>																	
9419	<b>SERVICING</b>																	
Not Applicable																		
9420	<b>STATISTICS</b>																	
9420.1	Is engine performance data available and sent to the company?															0	5	
9420.2	Is cargo operation performance data available and sent to the company?															0	5	
9420.3	Is crew performance data available and sent to the company?															0	5	
9420.4	Is periodical inspection and test data available and sent to the company?															0	5	
9420.5	Is environmental data available and sent to the company?															0	5	
9420.6	Is nautical (hydrostatic, speed & meteorological) data available and sent to the company?															0	5	
<b>Total score</b>															0	30		
Minimum ranking score required for element 9420 = 20																		

CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2019					
Norm Item	TOTAL SCORE REVIEW SHIP SURVEY - LNG CARRIER	SHIP'S RANKING SCORE	MAXIMUM OBTAINABLE RANKING SCORE	MINIMUM RANKING SCORE REQUIRED	ELEMENTS WITH NO MINIMUM SCORE
<b>1000</b>	<b>GENERAL</b>				
1100	Data Monitoring and Recording Equipment / Data Providing Services	0	25	0	
1200	Enclosed Space Entry & Hot Work	0	80	80	
1300	Compressor for the refilling of air cylinders for breathing apparatus or Alternative, Additional Green Award requirement	0	20	10	
1400	Control of drugs & alcohol onboard	0	20	10	
1500	Emergency Response System	0	80	60	
1600	Computer Systems, Networks, Data Security and Training. GA requirement	0	60	30	
1610	Cyber Risk Management	0	20	10	
1700	Noise and Vibration Management	0	50	15	
1710	Underwater Noise and Vibration Management	0	10	0	
<b>2000</b>	<b>NAVIGATION / BRIDGE OPERATIONS</b>				
2100	Navigation	0	120	40	
2111	Electronic chart display & information systems / ECDIS	0	55	30	
2120	Fuel Change Over / Ballast Water Exchange	0	20	20	
2200	Helicopter / Ship Operations	0	20	20	
2300	Mooring Operations	0	50	30	
<b>3000</b>	<b>MACHINERY / ENGINE OPERATIONS</b>				
3100	Bunker Operations	0	50	50	
3200	Fuel Oil Testing, Bunker Alerts, Marpol Bunkering Requirements & Additional Green Award requirements	0	100	70	
<b>4000</b>	<b>CARGOES / CARGO OPERATIONS</b>				
4100	LNG Carrier Cargo Operations & Additional Green Award requirements	0	90	80	
4200	Ship to Ship Transfer Operations	0	30	30	
4400	Additional Green Award Requirements (tank alarms, coatings, etc.)	0	50	40	
4700	LNG Sloshing Load Monitoring System	0	50	0	
<b>5000</b>	<b>PREVENTION OF POLLUTION</b>				
5200	Waste Management / Garbage Handling Onboard	0	130	55	
5300	Cargo Vapour Emission Control Systems	0	105	70	
5400	Management of Ship Engine Emissions	0	140	10	
5420	Sulphur Content of Fuel	0	140	0	
5460	Environmental Ship Index (ESI)	0	60	0	
5500	Sewage Management	0	70	5	
5510	Grey Water Management	0	25	0	
5700	Ballast Water Management	0	100	50	
5800	Accidental Bunker Oil Pollution Prevention Measures (overflow prevention systems)	0	30	15	
5801	Protective location of fuel and lubrication oil tanks	0	70	20	
5810	Stern tube lubrication	0	60	15	
5811	Mooring wire lubrication	0	20	0	
5812	Deck equipment lubrication (use of oils)	0	55	0	
5820	Management of bilge water and sludge handling onboard	0	20	15	
5821	Outfitting of bilge water system	0	80	20	
5822	Outfitting of sludge handling system	0	35	5	

CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2019					
Norm Item	TOTAL SCORE REVIEW SHIP SURVEY - LNG CARRIER	SHIP'S RANKING SCORE	MAXIMUM OBTAINABLE RANKING SCORE	MINIMUM RANKING SCORE REQUIRED	ELEMENTS WITH NO MINIMUM SCORE
5900	Ship Recycling - Inventory of Hazardous Materials	0	110	0	
6000	<b>MAINTENANCE / SURVEYS</b>				
6100	<b>Programme of Inspections</b>	0	60	60	
6110	Critical and Stand-by Equipment	0	30	10	
6200	Mooring Equipment	0	95	65	
6300	Corrosion Prevention of Seawater Ballast Tanks	0	70	40	
6400	Condition Assessment Program, Maintenance Additional Green Award requirements	0	120	60	
6500	<b>Certificates for Cargo Gear</b>	0	40	40	
7000	<b>CREW</b>				
7200	Extra personnel, Additional Green Award Requirement	0	70	30	
7300	Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses	0	125	60	
7400	Familiarisation, Additional Green Award Requirement	0	80	50	
7500	Safe Manning and Fatigue Management	0	60	40	
9000	<b>REQUIREMENTS ACCORDING TO NEN-EN ISO 9001:2000</b>				
9406	<b>PURCHASING</b>	0	40	40	
9407	<b>PURCHASER SUPPLIED PRODUCT</b>	0	40	40	
9408	<b>PRODUCT IDENTIFICATION AND TRACEABILITY</b>	0	40	40	
9411	<b>INSPECTION, MEASURING AND TEST EQUIPMENT</b>	0	10	10	
9412	<b>INSPECTION AND TEST STATUS</b>	0	40	40	
9415	<b>HANDLING, STORAGE, PACKAGING AND DELIVERY</b>	0	60	60	
9420	<b>STATISTICS</b>	0	30	20	
	<b>TOTAL SCORES</b>	0	3260	1610	

**LEGEND**

○	Indicates which crew/employee may be interviewed/questioned.
■	Shows that a certain item is complied.
■	Shows that a certain item is <i>not</i> complied.
0	Indicates that an alternative is used, hence the score for that item is a "0".
■	The checklist was filled in incorrectly, thus shows "error".
0	Indicates that the whole element did not reach the minimum score, hence a finding is issued. The number shows the scores obtained.
■	Shows which elements are minimum = maximum. Hence scores on all items is required to fully comply.
■	Indicates that the minimum score for the relevant element is "0", hence a finding will <i>not</i> be issued.

\* for detailed interpretations of the colours and the usage of the checklist, please refer to the pdf-file named "Instruction Notes" located on [www.greenaward.org](http://www.greenaward.org) under "Certification/ Download".


## **APPENDIX 5**

### **CHECKLIST - VISUAL INSPECTION - LNG CARRIER STEAM TURBINE**


**(LMC-10)**




**GREEN AWARD VISUAL INSPECTION - LNG - STEAM TURBINE**

Norm Item		Inspection Focus
<b>8100 Machinery</b>		
<b>8101 Reports</b>		
8101.1 8101.2 8101.3 8101.4 8101.5	Classification reports State Authority reports Company Reports Inspection guidelines Other reports	Survey reports with recommendations and conditions of class, repairs Survey reports, recommendations Inspection, repair, maintenance, planning, dry-dock reports by ship's staff and superintendents Guidelines on the means of access to structures for inspection and maintenance of oil tankers and bulk carriers, MSC/Circ.686 Vetting reports by chartering companies and independent surveyors
<b>8102 Engine Room</b>		
8102.1 8102.2 8102.3 8102.4 8102.5 8102.6 8102.7	Overall tidiness of E.R. space General cleanliness of E.R. Storage E.R. equipment Handling of general E.R. waste Indication of E.R. emergency escapes Savealls Workshop	Unsecured and loose material, tools and E.R. spare-parts Oil- & gas-free environment Equipment stored at designated places General waste stored & handled properly Clearly visible and not obstructed Oil, liquid and dirt free Safety instructions near machinery (Grindstone, Lathe etc)
<b>8103 Main Propulsion</b>		
8103.1 8103.2 8103.3 8103.4 8103.5 8103.6 8103.7 8103.8 8103.9	Steam supply and exhaust Boiler and auxiliary machinery fuel lines Gas, H.P. & L.P. Cleanliness of turbine Instructions on emergency stand Condition of controllers / thermo couples & wiring Gas and Fuel oil system Lub. oil system Auxiliary generator starting air system Cooling water system	Leakage / condition of lagging, black spots and stripes / loose lagging Fuel pipes condition, protective devices, protecting pipe/cover, L.P. pipes check leakage and heating tracings Valves, manoeuvring valves, hydraulic actuator and safety systems free from leakage and defects. Instrumentation operational. Are there clear instructions available for changing over from normal to emergency conditions Loose wires, open doors of controllers Gas lines and protective systems free from defect. Fuel oil system filters for leakage, purifiers cleanliness, area around purifiers Filters and safealls, purifiers condition Condition of starting air lines and valves Condition of expansion bellows
<b>8104 Auxiliary Engines</b>		
8104.1 8104.2 8104.3 8104.4	General performance Leakage, condition of fuel oil, lub. oil lines Emergency Generator	Cracks, corrosion and / or pipes connections not tight Oil-, water-, corrosion- and dirt-free Condition and date last tested
<b>8105 Boilers</b>		
8105.1 8105.2 8105.3 8105.4 8105.5	Steam Condition of burner front Lagging / isolation of fuel and steam lines Boiler bilge / Saveall	Gas lines inspected and protective devices operational, oil fires free from leakage and air leakage. IR and UV detection system satisfactory. Condition of lagging Check possible leakages bellows / quick closing valves Oil-, water-, corrosion- and dirt-free


**GREEN AWARD VISUAL INSPECTION - LNG - STEAM TURBINE**

Norm Item		Inspection Focus
<b>8100 Machinery</b>		
<b>8106 Bilge System</b>		
8106.1	Cleanliness of bilges on every platform	Presence of oil, water, corrosion and / or dirt
8106.2	Bilge separator, position of all valves	
8106.3	In port overboard valve sealed	
8106.4	Condition and record regarding oily-bilge separator	Check Oil Record Book - Machinery Space Operations
8106.5	Bilge alarms	Alarms high level & high-high level in good condition
8106.6	Emergency Bilge Suction valve	Check condition / last time tested
8106.7	Double bottom sounding pipes	Check functioning self closing valves
<b>10107 Ballast Pumps</b>		
10107.1	Condition of pumps	Check functioning of pumps
10107.2	Condition of ballast system	Functioning of all pumps combined
10107.3	Condition of supports	Corrosion, cracks, deformation of pump-supports
<b>8107 Piping Systems</b>		
8107.1	General condition	Check for leakage and / or temporary repairs
8107.2	Condition of piping supports	Check for corroded, broken and / or missing supports
<b>8108 General Service Air Systems</b>		
8108.1	Condition of air and oil drains	Check good working
8108.2	Condition of pipe lines	Check for leakage and / or temporary repairs
8108.3	Condition of safety valves	Check free movement
<b>8109 Chemicals</b>		
8109.1	Sufficient Personal Protecting Equipment available	Near storage place and users place
8109.2	Sufficient signboards available	Near storage place and users place
8109.3	Storage of chemicals according safety rules	According makers safety instructions
<b>8110 Electrical</b>		
8110.1	Generator inspections during operation max. load	
8110.2	Examination of cables without attachments	Cable supports bulkhead and deck penetrations
8110.3	Electrical equipments in acc. with danger zones	Zeners barriers etc.
<b>8111 Inert Gas Plant</b>		
8111.1	Inert Gas system fully operational	
8111.2	Condition of all instrumentation	Special O2 meter
8111.3	Condition of all alarms and trips	High and low level alarms etc.
<b>8112 Sewage Plant</b>		
8112.1	Sewage Plant fully operational	Alarms, level switches etc.
8112.2	Position of valves correct	Check if the by-pass valves are closed
<b>8113 Fire Pumps</b>		
8113.1	Position of fire pump valves	Are instructions available for position of valves
8113.2	General check of emergency fire pump	Position of fuel valve, content of fuel tank etc.
8114.3	Operating instructions of fire pump and drive unit	Clear instruction board available
<b>8114 Emergency Electrical Stops</b>		
8114.1	Emergency stops of general service pumps	Last time tested
8114.2	Emergency stops of steering gear pumps	Last time tested
8114.3	Emergency stops of fans	Last time tested
8114.4	Independent level ESD	Last time tested
8114.5	EMERGENCY ESD	Last time tested
<b>8115 Quick Closing Valves</b>		
8115.1	Condition of closing valve station	Check for clear instructions
8115.2	Condition of closing valves E.R.	Check for obstructions or other objects


**GREEN AWARD VISUAL INSPECTION - LNG - STEAM TURBINE**

Norm Item		Inspection Focus
<b>8100 Machinery</b>		
<b>8116 Gauge Glasses Class</b>		
8116.1	Condition of gauge glasses closing valves	Check proper working and if they are normal closed
8116.2	Condition of gauge glasses lub. oil tanks	Check proper working and if they are normal closed
8116.3	Condition of gauge glasses chemical tanks	Check proper working and if they are normal closed
8116.4	Condition of gauge glasses fuel tanks	Check proper working and if they are normal closed
<b>8117 Ventilation</b>		
8117.1	Fire flaps in trunks engine room	Check markers open/close and proper working
8117.2	Fire flaps	Check proper working
<b>8118 Exhaust gases of machinery</b>		
8118.1	Emission of main engines	Content NOX en SOX
<b>8200 Steering Gear</b>		
<b>8201 SOLAS requirements</b>		
8201.1	Steering gear unit complies with SOLAS	
8201.2	Steering gear room complies with SOLAS	
8202.3	Steering gear unit - and room cleanness	Check for hydraulic leaks, presence of water and / or oil in drip-trays
<b>8203 Change over procedures</b>		
8203.1	Emergency steering gear change over procedures	Signs posted with instructions for emergency change-over
8203.2	Procedures for emergency change over visible	Clearly visible near controls of steering gear unit
<b>8204 Testing</b>		
8204.1	Emergency steering tested recently	Check records in engine / deck logbook
8204.2	Steering Gear	Check records in engine / deck logbook. Testing before arrival and departure.
<b>8205 Charging emergency header tank</b>		
8205.1	Emergency header tank fully charged	Tankers over 10.000 GT must have fixed tank with sufficient capacity to recharge min. one unit
8205.2	Fixed storage tank installed	
<b>8206 Compass</b>		
8206.1	Compass present in steering gear room	
8206.2	Compass clearly visible from control-station	
<b>8207 Bridge Communications</b>		
8207.1	Satisfactory communications with bridge	
8207.2	Telephone available and working	
8207.3	Sound powered telephone available and working	
<b>8207 Visibility of Rudder Angle Indicator</b>		
8207.1	Rudder angle indicator present	
8207.2	Rudder angle indicator visible at steering position	
<b>8208 Access to Steering Gear</b>		
8208.1	Entrance door to steering gear room closed	Door to be kept closed at all times and not lashed or blocked in open position
8208.2	Access to steering gear unit unobstructed	Steering gear room should be uncluttered with easy access to all components of the system
8208.3	Safety and protection measures fitted	Vessels > 10.000 GT should have railings around the steering gear and deck non-slip surface
8208.4	Bilge alarms	Alarms high level & high-high level in good condition


**GREEN AWARD VISUAL INSPECTION - LNG - STEAM TURBINE**

Norm Item		Inspection Focus
<b>8300 Cargo / Ballast System</b>		
<b>8301 Drawings / Diagrams in Cargo Control Room</b>		
8301.1	All relevant drawings and diagrams available	Pipeline diagrams, mimic diagrams etc should be available in CCR
8301.2	Drawings visible inside CCR	Drawings clearly visible and understandable for operation
10301.3	Loading manual / history reports	Check for typical loading / unloading sequences
<b>8302 Functioning of Cargo systems and Ballast Pumps</b>		
8302.1	Ballast pumps working	
8302.2	Main Cargo and stripping pumps with temperature sensors readout in CCR	
8302.3	Tank protection and containment systems monitored with readout in CCR	
8302.4	High duty compressor systems fitted with monitoring and safety systems. Running condition monitored in CCR	
8302.5	Tank pressure control system fitted with monitoring, control and safety devices. Running condition monitored and controlled from CCR	
8302.6	Fuel gas delivery system fitted with control, monitoring and safety devices. Running condition monitored from CCR and/or ECR	
8302.7	Is all equipment combined working	Malfunctioning often indicator
<b>8303 Functioning Pump Controls/Turbine Controls</b>		
8303.1	Pump controls functioning	
8303.2	Pump alarms functioning	N/A
8303.3	Turbine trips functioning	
8303.4	Regular tests conducted	
8303.5	Tests recorded	
<b>8304 Gauges and Tachometers</b>		
8304.1	Cargo / Ballast pump gauges operational	
8304.2	Cargo / Ballast pump tachometers operational	
<b>8305 Engine / Pump Room Seals</b>		
<b>8306 Cargo Control Room Communications</b>		
8306.1	Communication satisfactory	Communication between Cargo Control Room / ECR
8306.2	Communication operational	
<b>8300 Cargo / Ballast System</b>		
<b>8307 Meters / Displays Inside Compressor House and E.R.</b>		
8307.1	Suction, discharge, temperature and control instruments.	
8307.2	Continuous monitoring of gases	
8307.3	Ballast equipment bearings / pump casing instrumentation	
8307.4	Bilge alarms in ER, cofferdams and side passage ways	
<b>8308 Electrical Equipment</b>		
8308.1	Equipment installed explosion-proof	Light, control equipment, cargo machinery interlocks etc
8308.2	Ventilation and cargo system interlocked	Ventilation stops with failure of ventilation.
8308.3	Condition of electrical safety barriers	Intrinsically safe barrier interface
<b>8309 Oil Discharge Monitoring Equipment</b>		
8309.1	Oil discharge monitor	N/A
8309.2	Recorder	N/A
<b>8310 Vapour return system</b>		
8310.1	Cargo vapour return system	According IMO guidelines


**GREEN AWARD VISUAL INSPECTION - LNG - STEAM TURBINE**

Norm Item		Inspection Focus
<b>8400 Structural</b>		
<b>8401 Drawings</b>		
8401.1	Review of all relevant structural drawings	Overview structural design and scantlings
<b>8402 Reports</b>		
8402.1	Classification reports	Survey reports with thickness readings, recommendations and conditions of class, repairs
8402.2	State Authority reports	Survey reports, recommendations
8402.3	Company Reports	Inspection reports, repair, maintenance and dry-dock reports by ship's staff and superintendents
8402.4	Inspection guidelines	Guidelines on the means of access to structures for inspection and maintenance of oil tankers and bulk carriers, MSC/Circ.686
8402.5	Other reports	Vetting reports by chartering companies and independent surveyors
<b>8403 External Hull</b>		
8403.1	Shell plating	Check for indents, cracks, corrosion, pitting, paint condition, local rust and / or cargo stripes
<b>8404 Cargo Tanks</b>		
8404.1	Structural integrity	Docking inspection. Cold spot at sea
8404.2	Corrosion condition	Cold spot inspection
8404.3	Corrosion protection system	Condition of coating and / or sacrificial anodes
8404.4	Pipelines and valves	Condition pipes, supports, coupling, flanges, deformations and leakages
8404.5	Miscellaneous equipment	Condition of cargo control, heating systems and access facilities
<b>8405 Ballast Tanks</b>		
8405.1	Structural integrity	Deformations, cracks, leakages of bulkheads, stringers, webs, girders
8405.2	Corrosion condition	Corrosion and / or corrosion pattern of structural design
8405.3	Corrosion protection system	Condition of coating and / or sacrificial anodes
8405.4	Pipelines and valves	Condition pipes, supports, coupling, flanges, deformations and leakages
8405.5	Miscellaneous equipment	Condition ballast pumps, ballast control, access facilities
<b>8406 Void spaces / Cofferdams</b>		
8406.1	Structural integrity	Deformations, cracks, leakages of bulkheads, stringers, webs, girders
8406.2	Corrosion condition	Corrosion and / or corrosion pattern of structural design
8406.3	Corrosion protection system	Condition of coating and / or sacrificial anodes
8406.4	Pipelines and valves	Condition pipes, supports, coupling, flanges, deformations and leakages
8406.5	Miscellaneous equipment	Condition emergency pumps / controls, access facilities
<b>8409 Pump Room / UNDER PASSAGE SPACES</b>		
8409.1	Structural integrity	Condition check, deformation, cracks, corrosion
8409.2	Sea-inlet boxes	N/A
8409.3	Pipelines, valves, couplings, overboard connection	Check corrosion, working conditions and leakages
8409.4	Bilge level monitoring devices and bilge alarms installed	
8409.5	Ventilation system	Condition fans, trunking and closing devices

**GREEN AWARD VISUAL INSPECTION - LNG - STEAM TURBINE**

Norm Item		Inspection Focus
<b>8400 Structural</b>		
<b>8407 Main Deck &amp; Fittings</b>		
8407.1	Deck plating - Deformations	May indicate problems from underneath, stiffeners or underneath deck-plating
8407.2	Deck plating - Fractures	May indicate substantial corrosion and / or local stress areas
8407.3	Deck plating - Damages	Caused by collisions and / or under-/overpressure cargo tanks
8407.4	Deck plating - Corrosion	If substantial indicate pattern, density and locations
8407.5	Tank entrances and deck openings	Condition check of covers and closing devices
8407.6	Pipeline couplings, flanges, branches and supports	Condition check, deformation, cracks, corrosion, tightness
8407.7	Ventilation - pipes / ducts	Condition check of covers, closing devices, flame screens, floating locks
8407.8	Inert Gas valves, non return valves, P/V breaker, mast riser	Condition check
8407.9	P/V valves on every separate tank	Condition check and check double means for P/V
8407.10	Bunker connections fwd & aft at SB & PS cargo-manifold	
8407.11	Emergency stop at cargo manifold	Condition check
8407.12	Permanent drip-trays on open deck where spills may occur	
8407.13	Are these drip-trays clean and properly closed	
8407.14	Distance presentation flanges - ship's side > 4,6 mtr	
8407.15	Manifold spill-tank length extending beyond bunker connection	
8407.16	Manifold spill-tank 1,8 mtr. in width and reaching 1,2 mtr beyond reducer presentation flanges	
8407.17	Manifold spill-tank minimum depth of 300 mm	
8407.18	Suitable means provided for draining manifold spill-tank	
8407.19	Manifold spill-tank clean and empty	
8407.20	Manifold spill-tank well maintained	
8407.21	Continuous deckedge fishplate height / deck scupper closing devices	
8407.22	Emergency pump fixed or portable	
8407.23	Dropvalves from spill-tanks to sloptanks on deck	
8407.24	Arrangements for continuous draining of rain water	
8407.25	Hose handling, stores handling	Check certificates and working order
8407.26	Sufficient tank-openings for portable COW to reach all shadow areas	In accordance with shadow diagram class
8407.27	Safe access to bow and main deck railing	Check condition and compliance new rules
8407.28	Adequate supports installed abeam of manifold for cargo-hoses	Fitting of cargo hose rail
8407.29	Bunker and oil tank derating pipes	Check flame screens and coamings
<b>8410 Accomodation &amp; Machinery Spaces</b>		
8410.1	Structural integrity	General condition, damages & defects
8410.2	Doors, windows, ventilation ducts, closing devices	Condition check and water tightness
8410.3	Stairs and platforms	Condition check, corrosion / deformations
8410.4	Pipelines, valves, couplings, overboard connection	Condition check
8410.5	Safety equipment	Condition check CO2, Halon system, extinguishers, fire hoses, alarms etc.
8410.6	Certificates for safety equipment	
<b>8411 Mooring equipment</b>		
8411.1	Mooring lines	Condition mooring lines
8411.2	Winches	Foundation bolts firm, casing crack-, corrosion-free, no leakages and saveall
8411.3	Condition winch-brakes	Check last test report and thickness linings
<b>8412 Anchoring equipment</b>		
8412.1	Anchors, anchor shackles and chain	Wear, corrosion, clearances inside hawser pipe
8412.2	Anchor winch and associated gear	Foundation, no leakages, condition of brakes, hinges and hinge plates
8412.3	Anchor securing	Condition and workable
<b>8413 Emergency towing system</b>		
8413.1	Condition emergency towing equipment aft ship	Check wires etc.
8413.2	Condition emergency towing equipment fore ship	

**GREEN AWARD VISUAL INSPECTION - LNG - STEAM TURBINE**

Norm item		Inspection Focus
<b>8500 Safety / Rescue</b>		
<b>8501 Safety equipment</b>		
8501.1	Certificates	Check certificates, reports and safety drills
8501.2	Safety plan	Check available and clearly visible
<b>8502 Rescue equipment</b>		
8502.1	Life boat + davits	Check condition (incl. Cathodic wear) and working order
8502.2	Rescue boat + davits	Check condition (incl. Cathodic wear) and working order
8502.3	Life rafts + release system	Check condition (incl. Cathodic wear) and working order
8502.4	Accommodation ladders, pilot ladders and gangway	Check condition and working order
8502.6	Life jackets	Check condition and working order
8502.7	Life buoys	Check condition (incl. Cathodic wear) and working order
<b>8503 Fire fighting</b>		
8503.1	CO2 / Halon system	Pressure gauges / indicators on bottles / pipelines / nozzles
8503.2	Foamtank	Content / Filling
8503.3	Foam monitors on deck	Check condition and working order
8503.4	Fire control plans	Check available and clearly visible
8503.5	Portable fire extinguishers	Check ready for use, last check date
8503.6	Fireman's outfit	Check ready for use, easy accessible
8503.7	Breathing Apparatus charging compressor	Check ready for use, easy accessible
8503.8	International Ship/Shore Fire connection	Check available both sides
8503.9	Fire alarm system and detectors	Check test records, condition in accommodation, ER and boiler room
8503.10	Fire flaps and vent stops	Check condition on deck, accommodation, ER and boiler room and clearly marked
8503.11	Fire lines	Check condition on deck, accommodation, ER and boiler room
8503.12	Fire hoses	Check condition on deck, accommodation, ER and boiler room
8503.13	Fire system for scavenging air receiver and boiler front	Check condition and working order separate fire fighting system
<b>8504 Escape routes</b>		
8504.1	Free access	Check free access without obstructions
8504.2	Indicators	Check clear markers / positioning
8504.3	Emergency lighting	Check clear markers / positioning
<b>8505 Oil Spill Response Equipment</b>		
8505.1	Oil Pollution Emergency Plan	Check availability
8505.2	Emergency equipment	Check content and working order


## **APPENDIX 6**

### **CHECKLIST - VISUAL INSPECTION - LNG CARRIER MOTOR WITH RELIQUEFICATION**


**(LMC-10)**




**GREEN AWARD VISUAL INSPECTION - LNG - MOTOR WITH RELIQUEFICATION**

Norm item		Inspection Focus
<b>8100 Machinery</b>		
<b>8101 Reports</b>		
8101.1	Classification reports	Survey reports with recommendations and conditions of class, repairs
8101.2	State Authority reports	Survey reports, recommendations
8101.3	Company Reports	Inspection, repair, maintenance, planning, dry-dock reports by ship's staff and superintendents
8101.4	Inspection guidelines	Guidelines on the means of access to structures for inspection and maintenance of oil tankers and bulk carriers, MSC/Circ.686
8101.5	Other reports	Vetting reports by chartering companies and independent surveyors
<b>8102 Engine Room</b>		
8102.1	Overall tidiness of E.R. space	Unsecured and loose material, tools and E.R. spare parts
8102.2	General cleanliness of E.R.	Oil- & gas-free environment
8102.3	Storage E.R. equipment	Equipment stored at designated places
8102.4	Handling of general E.R. waste	General waste stored & handled properly
8102.5	Indication of E.R. emergency escapes	Clearly visible and not obstructed
8102.6	Savealls	Oil, liquid and dirt free
8102.7	Workshop	Safety instructions near machinery (Grindstone, Lathe etc)
<b>8103 Main Propulsion</b>		
8103.1	Exhaust gas lines	Leakage / condition of lagging, black spots and stripes / loose lagging
8103.2	Fuel lines H.P. & L.P.	H.P. pipes condition of protecting pipe/cover, L.P. pipes check leakage and heating tracings
8103.3	Cleanliness of cylinder heads	Fuel oil, cooling water, lub. oil and exhaust gas leaks
8103.4	Instructions on emergency stand	Are there clear instructions available for changing over from normal to emergency conditions
8103.5	Condition of controllers / thermo couples & wiring	Loose wires, open doors of controllers
8103.6	Fuel oil system	Filters for leakage, purifiers cleanliness, area around purifiers
8103.7	Lub. oil system	Filters and safealls, purifiers condition
8103.8	Starting air system	Condition of starting air lines and valves
8103.9	Cooling water system	Condition of expansion bellows
<b>8104 Auxiliary Engines</b>		
8104.1	General performance	Cracks, corrosion and / or pipes connections not tight
8104.2	Leakage, condition of fuel oil, lub. oil lines	Oil-, water-, corrosion- and dirt-free
8104.3		Condition and date last tested
8104.4	Emergency Generator	
<b>8105 Boilers</b>		
8105.1	Steam or Thermal oil	
8105.2	Condition of burner front	Oil leakage, and air leakage
8105.3	Lagging / isolation of fuel and steam lines	Condition of lagging
8105.4	Thermal Oil	Check possible leakages bellows / quick closing valves
8105.5	Boiler bilge / Saveall	Oil-, water-, corrosion- and dirt-free
<b>8106 Bilge System</b>		
8106.1	Cleanlines of bilges on every platform	Presence of oil, water, corrosion and / or dirt
8106.2	Bilge separator, position of all valves	
8106.3	In port overboard valve sealed	
8106.4	Condition and record regarding oily-bilge separator	Check Oil Record Book - Machinery Space Operations
8106.5	Bilge alarms	Alarms high level & high-high level in good condition
8106.6	Emergency Bilge Suction valve	Check condition / last time tested
8106.7	Double bottom sounding pipes	Check functioning self closing valves


**GREEN AWARD VISUAL INSPECTION - LNG - MOTOR WITH RELIQUEFICATION**

Norm item		Inspection Focus
<b>8100 Machinery</b>		
<b>10107 Ballast Pumps</b>		
10107.1	Condition of pumps	Check functioning of pumps
10107.2	Condition of ballast system	Functioning of all pumps combined
10107.3	Condition of supports	Corrosion, cracks, deformation of pump supports
<b>8107 Piping Systems</b>		
8107.1	General condition	Check for leakage and / or temporary repairs
8107.2	Condition of piping supports	Check for corroded, broken and / or missing supports
<b>8108 General Service Air Systems</b>		
8108.1	Condition of air and oil drains	Check good working
8108.2	Condition of pipelines	Check for leakage and / or temporary repairs
8108.3	Condition of safety valves	Check free movement
<b>8109 Chemicals</b>		
8109.1	Sufficient Personal Protecting Equipment available	Near storage place and users place
8109.2	Sufficient signboards available	Near storage place and users place
8109.3	Storage of chemicals according safety rules	According makers safety instructions
<b>8110 Electrical</b>		
8110.1	Generator inspections during operation max. load	
8110.2	Examination of cables without attachments	Cable supports bulkhead and deck penetrations
8110.3	Electrical equipments in acc. with danger zones	Zeners barriers etc.
<b>8111 Inert Gas Plant</b>		
8111.1	Inert Gas system fully operational	
8111.2	Condition of all instrumentation	Special O2 meter
8111.3	Condition of all alarms and trips	High and low level alarms etc.
<b>8112 Sewage Plant</b>		
8112.1	Sewage Plant fully operational	Alarms, level switches etc.
8112.2	Position of valves correct	Check if the by-pass valves are closed
<b>8113 Fire Pumps</b>		
8113.1	Position of fire pump valves	Are instructions available for position of valves
8113.2	General check of emergency fire pump	Position of Fuel valve, Content of fuel tank etc.
8113.3	Operating instructions of fire pump and drive unit	Clear instruction board available
<b>8114 Emergency Electrical Stops</b>		
8114.1	Emergency stops of general service pumps	Last time tested
8114.2	Emergency stops of steering gear pumps	Last time tested
8114.3	Emergency stops of fans	Last time tested
8114.4	Independent level ESD	Last time tested
8114.5	EMERGENCY ESD	Last time tested
<b>8115 Quick Closing Valves</b>		
8115.1	Condition of closing valve station	Check for clear instructions
8115.2	Condition of closing valves E.R.	Check for obstructions or other objects
<b>8116 Gauge Glasses Class</b>		
8116.1	Condition of gauge glasses closing valves	Check proper working and if they are normal closed
8116.2	Condition of gauge glasses lub. oil tanks	Check proper working and if they are normal closed
8116.3	Condition of gauge glasses chemical tanks	Check proper working and if they are normal closed
8116.4	Condition of gauge glasses fuel tanks	Check proper working and if they are normal closed


**GREEN AWARD VISUAL INSPECTION - LNG - MOTOR WITH RELIQUEFICATION**

Norm item		Inspection Focus
<b>8117 Ventilation</b>		
8117.1	Fire flaps in trunks engine room	Check markers open/close and proper working
8117.2	Fire flaps	Check proper working
<b>8118 Exhaust gases of machinery</b>		
8118.1	Emission of main engines	Content NOX en SOX
<b>8200 Steering Gear</b>		
<b>8201 SOLAS requirements</b>		
8201.1	Steering gear unit complies with SOLAS	Check for hydraulic leaks, presence of water and / or oil in drip-trays
8201.2	Steering gear room complies with SOLAS	
8202.3	Steering gear unit - and room - cleanness	
<b>8203 Change over procedures</b>		
8203.1	Emergency steering gear change over procedures	Signs posted with instructions for emergency change-over
8203.2	Procedures for emergency change over visible	Clearly visible near controls of steering gear unit
<b>8204 Testing</b>		
8204.1	Emergency steering tested recently	Check records in engine / deck logbook
8204.2	Steering Gear	Check records in engine / deck logbook. Testing before arrival and departure.
<b>8205 Charging emergency header tank</b>		
8205.1	Emergency header tank fully charged	Tankers over 10.000 GT must have fixed tank with sufficient capacity to recharge min. one unit
8205.2	Fixed storage tank installed	
<b>8206 Compass</b>		
8206.1	Compass present in steering gear room	
8206.2	Compass clearly visible from control-station	
<b>8207 Bridge Communications</b>		
8207.1	Satisfactory communications with bridge	
8207.2	Telephone available and working	
8207.3	Sound powered telephone available and working	
<b>8207 Visibility of Rudder Angle Indicator</b>		
8207.1	Rudder angle indicator present	
8207.2	Rudder angle indicator visible at steering position	
<b>8208 Access to Steering Gear</b>		
8208.1	Entrance door to steering gear room closed	Door to be kept closed at all times and not lashed or blocked in open position Steering gear room should be uncluttered with easy access to all components of the system Vessels > 10.000 GT should have railings around the steering gear and deck non-slip surface Alarms high level & high-high level in good condition
8208.2	Access to steering gear unit unobstructed	
8208.3	Safety and protection measures fitted	
8208.4	Bilge alarms	


**GREEN AWARD VISUAL INSPECTION - LNG - MOTOR WITH RELIQUEFICATION**

Norm item		Inspection Focus
<b>8300 Cargo / Ballast System</b>		
<b>8301 Drawings / Diagrams in Cargo Control Room</b>		
8301.1 8301.2 10301.3	All relevant drawings and diagrams available Drawings visible inside CCR Loading manual / history reports	Pipeline diagrams, mimic diagrams etc should be available in CCR Drawings clearly visible and understandable for operation Check for typical loading / unloading sequences
<b>8302 Functioning of Cargo systems and Ballast Pumps</b>		
8302.1 8302.2 8302.3 8302.4 8302.5 8302.6 8302.7	Ballast pumps working Main Cargo and stripping pumps with temperature sensors readout in CCR Tank protection and containment systems monitored with readout in CCR High duty compressor systems fitted with monitoring and safety systems. Running condition monitored in CCR Tank pressure control system fitted with monitoring, control and safety devices. Running condition monitored and controlled from CCR Gas burning system ( GCU) fitted with control, monitoring and safety devices. Running condition monitored from CCR and/or ECR Is all equipment combined working	Malfunctioning often indicator
<b>8300 Cargo / Ballast System</b>		
<b>8303 Functioning Pump Controls/Turbine Controls</b>		
8303.1 8303.2 8303.3 8303.4 8303.5	Pump controls functioning Pump alarms functioning Turbine trips functioning Regular tests conducted Tests recorded	N/A
<b>8304 Gauges and Tachometers</b>		
8304.1 8304.2	Cargo / Ballast pump gauges operational Cargo / Ballast pump tachometers operational	
<b>8305 Engine / Pump Room Seals</b>		
<b>8306 Cargo Control Room Communications</b>		
8306.1 8306.2	Communicaion satisfactory Communication operational	Communication between Cargo Control Room / ECR
<b>8307 Meters / Displays Inside Compressor House and E.R.</b>		
8307.1 8307.2 8307.3 8307.4	Suction,discharge, temperature and control instruments Continouos monitoring of gases Ballast equipment bearings / pump casing instrumentation Bilge alarms in ER, cofferdams and side passage ways	
<b>8308 Electrical Equipment</b>		
8308.1 8308.2 8308.3	Equipment installed explosion-proof Ventilation and cargo system interlocked Condition of electrical safety barriers	Light,control equipment, cargo machinery interlocks etc Ventiation stops with failure of ventilation. Intrinsically safe barrier interface
<b>8309 Oil Discharge Monitoring Equipment</b>		
8309.1 8309.2	Oil discharge monitor Recorder	N/A N/A
<b>8310 Vapour return system</b>		
8310.1	Cargo vapour return system	According IMO guidelines


**GREEN AWARD VISUAL INSPECTION - LNG - MOTOR WITH RELIQUEFICATION**

Norm item		Inspection Focus
<b>8400 Structural</b>		
<b>8401 Drawings</b>		
8401.1	Review of all relevant structural drawings	Overview structural design and scantlings
<b>8402 Reports</b>		
8402.1	Classification reports	Survey reports with thickness readings, recommendations and conditions of class, repairs
8402.2	State Authority reports	Survey reports, recommendations
8402.3	Company Reports	Inspection reports, repair, maintenance and dry-dock reports by ship's staff and superintendents
8402.4	Inspection guidelines	Guidelines on the means of access to structures for inspection and maintenance of oil tankers and bulk carriers, MSC/Circ.686
8402.5	Other reports	Vetting reports by chartering companies and independent surveyors
<b>8403 External Hull</b>		
8403.1	Shell plating	Check for indents, cracks, corrosion, pitting, paint-condition, local rust and / or cargo stripes
<b>8404 Cargo Tanks</b>		
8404.1	Structural integrity	Deformations, cracks, leakages of bulkheads, stringers, webs, girders
8404.2	Corrosion condition	Corrosion and / or corrosion pattern of structural design
8404.3	Corrosion protection system	Condition of coating and / or sacrificial anodes
8404.4	Pipelines and valves	Condition pipes, supports, coupling, flanges, deformations and leakages
8404.5	Miscellaneous equipment	Condition cargo pumps, cargo control, tank cleaning / tank heating systems, access facilities
<b>8400 Structural</b>		
<b>8405 Ballast Tanks</b>		
8405.1	Structural integrity	Deformations, cracks, leakages of bulkheads, stringers, webs, girders
8405.2	Corrosion condition	Corrosion and / or corrosion pattern of structural design
8405.3	Corrosion protection system	Condition of coating and / or sacrificial anodes
8405.4	Pipelines and valves	Condition pipes, supports, coupling, flanges, deformations and leakages
8405.5	Miscellaneous equipment	Condition ballast pumps, ballast control, access facilities
<b>8406 Void spaces / Cofferdams</b>		
8406.1	Structural integrity	Deformations, cracks, leakages of bulkheads, stringers, webs, girders
8406.2	Corrosion condition	Corrosion and / or corrosion pattern of structural design
8406.3	Corrosion protection system	Condition of coating and / or sacrificial anodes
8406.4	Pipelines and valves	Condition pipes, supports, coupling, flanges, deformations and leakages
8406.5	Miscellaneous equipment	Condition emergency pumps / controls, access facilities
<b>8409 Pump Room / UNDER PASSAGE SPACES</b>		
8409.1	Structural integrity	Condition check, deformation, cracks, corrosion
8409.2	Sea-inlet boxes	N/A
8409.3	Pipelines, valves, couplings, overboard connection	Check corrosion, working conditions and leakages
8409.4	Bilge level monitoring devices and bilge alarms installed	
8409.5	Ventilation system	Condition fans, trunking and closing devices

**GREEN AWARD VISUAL INSPECTION - LNG - MOTOR WITH RELIQUEFICATION**

Norm item		Inspection Focus
<b>8407 Main Deck &amp; Fittings</b>		
8407.1	Deck plating - Deformations	May indicate problems from underneath, stiffeners or underneath deck-plating
8407.2	Deck plating - Fractures	May indicate substantial corrosion and / or local stress areas
8407.3	Deck plating - Damages	Caused by collisions and / or under-/overpressure cargo tanks
8407.4	Deck plating - Corrosion	If substantial indicate pattern, density and locations
8407.5	Tank entrances and deck openings	Condition check of covers and closing devices
8407.6	Pipeline couplings, flanges, branches and supports	Condition check, deformation, cracks, corrosion, tightness
8407.7	Ventilation - pipes / ducts	Condition check of covers, closing devices, flame screens, floating locks
8407.8	Inert Gas valves, non return valves, P/V breaker, mast riser	Condition check
8407.9	P/V valves on every separate tank	Condition check and check double means for P/V
8407.10	Bunker connections fwd & aft at SB & PS cargo-manifold	
8407.11	Emergency stop at cargo manifold	Condition check
8407.12	Permanent drip-trays on open deck where spills may occur	
8407.13	Are these drip-trays clean and properly closed	
8407.14	Distance presentation flanges - ship's side > 4,6 mtr	
8407.15	Manifold spill-tank length extending beyond bunker connection	
8407.16	Manifold spill-tank 1,8 mtr. in width and reaching 1,2 mtr beyond reducer presentation flanges	
8407.17	Manifold spill-tank minimum depth of 300 mm	
8407.18	Suitable means provided for draining manifold spill-tank	
8407.19	Manifold spill-tank clean and empty	
8407.20	Manifold spill-tank well maintained	
8407.21	Continuous deckedge fishplate height / deck scupper closing devices	
8407.22	Emergency pump fixed or portable	
8407.23	Dropvalves from spill-tanks to slop tanks on deck	
8407.24	Arrangements for continuous draining of rain water	
8407.25	Hose handling, stores handling	Check certificates and working order
8407.26	Sufficient tank-openings for portable COW to reach all shadow areas	In accordance with shadow diagram class
8407.27	Safe access to bow and main deck railing	Check condition and compliance new rules
8407.28	Adequate supports installed abeam of manifold for cargo-hoses	Fitting of cargo hose rail
8407.29	Bunker and oil tank derating pipes	Check flame screens and coamings
<b>8410 Accomodation &amp; Machinery Spaces</b>		
8410.1	Structural integrity	General condition, damages & defects
8410.2	Doors, windows, ventilation ducts, closing devices	Condition check and water tightness
8410.3	Stairs and platforms	Condition check, corrosion / deformations
8410.4	Pipelines, valves, couplings, overboard connection	Condition check
8410.5	Safety equipment	Condition check CO2, Halon system, extinguishers, fire hoses, alarms etc.
8410.6	Certificates for safety equipment	
<b>8411 Mooring equipment</b>		
8411.1	Mooring lines	Condition mooring lines
8411.2	Winches	Foundation bolts firm, casing crack-, corrosion-free, no leakages and saveall
8411.3	Condition winch brakes	Check last test report and thickness linings

**GREEN AWARD VISUAL INSPECTION - LNG - MOTOR WITH RELIQUEFICATION**

Norm item		Inspection Focus
<b>8412 Anchoring equipment</b>		
8412.1	Anchors, anchor shackles and chain	Wear, corrosion, clearances inside hawser pipe
8412.2	Anchor winch and associated gear	Foundation, no leakages, condition of brakes, hinges and hinge plates
8412.3	Anchor securing	Condition and workable
<b>8413 Emergency towing system</b>		
8413.1	Condition emergency towing equipment aft ship.	Check wires etc.
8413.2	Condition emergency towing equipment fore ship	
<b>8500 Safety / Rescue</b>		
<b>8501 Safety equipment</b>		
8501.1	Certificates	Check certificates, reports and safety drills
8501.2	Safety plan	Check available and clearly visible
<b>8502 Rescue equipment</b>		
8502.1	Life boat + davits	Check condition (incl. Cathodic wear) and working order
8502.2	Rescue boat + davits	Check condition (incl. Cathodic wear) and working order
8502.3	Life rafts + release system	Check condition (incl. Cathodic wear) and working order
8502.4	Accommodation ladders, pilot ladders and gangway	Check condition and working order
8502.6	Life jackets	Check condition and working order
8502.7	Life buoys	Check condition (incl. Cathodic wear) and working order
<b>8503 Fire fighting</b>		
8503.1	CO2 / Halon system	Pressure gauges / indicators on bottles / pipelines / nozzles
8503.2	Foamtank	Content / Filling
8503.3	Foam monitors on deck	Check condition and working order
8503.4	Fire control plans	Check available and clearly visible
8503.5	Portable fire extinguishers	Check ready for use, last check date
8503.6	Fireman's outfit	Check ready for use, easy accessible
8503.7	Breathing Apparatus charging compressor	Check ready for use, easy accessible
8503.8	International Ship/Shore Fire connection	Check available both sides
8503.9	Fire alarm system and detectors	Check test records, condition in accommodation, ER and boiler room
8503.10	Fire flaps and vent stops	Check condition on deck, accommodation, ER and boiler room and clearly marked
8503.11	Fire lines	Check condition on deck, accommodation, ER and boiler room
8503.12	Fire hoses	Check condition on deck, accommodation, ER and boiler room
8503.13	Fire system for scavenging air receiver and boiler front	Check condition and working order separate fire fighting system
<b>8504 Escape routes</b>		
8504.1	Free access	Check free access without obstructions
8504.2	Indicators	Check clear markers / positioning
8504.3	Emergency lighting	Check clear markers / positioning
<b>8505 Oil Spill Response Equipment</b>		
8505.1	Oil Pollution Emergency Plan	Check availability
8505.2	Emergency equipment	Check content and working order