

Green Award Foundation

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Annex 3f: Green Award Requirements (LPG carrier) Version 2018

Checklists for Office Audits and Ship Surveys

Effective as of 1 January 2018



Annex 3f: Green Award Requirements LPG carrier)



LPG carriers

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Legend for Checklists

O	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 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 - LPG CARRIER

(PMC-06)

CHECKLIST - BASIC CRITERIA - OFFICE AUDIT - LPG CARRIER- VERSION 2018																									
Revision Code	Norm item	 <div style="border: 1px solid black; padding: 10px; text-align: center; margin-top: 10px;"> <h2 style="margin: 0;">BASIC</h2> <h3 style="margin: 0;">Office - LPG</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		
			100	MANAGEMENT ELEMENTS																					
101	GENERAL			o		o		o		o		o		o					o		o				
101.1	Are the Management System (MS) Manuals maintained and updated?																								
102	SAFETY AND ENVIRONMENTAL PROTECTION POLICY			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 ?																								
103	COMPANY RESPONSIBILITIES AND AUTHORITY			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?																								
104	DESIGNATED PERSONS		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?																								
105	MASTER'S RESPONSIBILITY AND AUTHORITY			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?																								

CHECKLIST - BASIC CRITERIA - OFFICE AUDIT - LPG CARRIER- VERSION 2018																				
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100	MANAGEMENT ELEMENTS (continued)																			
106	RESOURCES AND PERSONNEL AND STCW																			
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?																			
107	DEVELOPMENT OF PLANS FOR SHIPBOARD OPERATIONS																			
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?																			
108	EMERGENCY PREPAREDNESS																			
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 - LPG CARRIER- VERSION 2018																								
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				100	MANAGEMENT ELEMENTS (continued)																			
	109	REPORTS AND ANALYSES OF NON-CONFORMITIES, ACCIDENTS AND HAZARDOUS OCCURENCES			o		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?																						
	110	MAINTENANCE OF THE SHIP AND EQUIPMENT			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?																						
	111	DOCUMENTATION			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?																						
	112	COMPANY VERIFICATION, REVIEW AND EVALUATION	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?																						


APPENDIX 2

CHECKLIST - RANKING CRITERIA - OFFICE AUDIT -
LPG CARRIER

(PMC-07)


CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LPG CARRIER - VERSION 2018

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	1000	GENERAL																								
M	1100	Data Monitoring and Recording Equipment	0		0		0																			
	1100.1	Is it company policy that the vessels constructed before 01/07/2002 are equipped with a "full" VDR?																							0	10
M/RR	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
N	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
N	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
RR			Total score																				0	35		
RR			Minimum ranking score required for element 1100 = 0																							
	1200	Enclosed Space Entry & Hot Work					0		0																	
	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 oxygen,flammable gases or vapours (% of LFL), carbon monoxide and hydrogen sulphide?																							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
	1200.16	Does the company provide ship specific lists that identify onboard enclosed spaces?																							0	5
	1200.17	Does the company specify PPE appropriate for low temperatures and liquefied gases cargoes?																							0	5
			Total score																				0	110		
			Minimum ranking score required for element 1200 = 110																							


CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LPG CARRIER - VERSION 2018																										
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			1300	Compressor for the refilling of air cylinders for breathing apparatus or Alternative , 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	Alternative for 1300.1: sufficient number of air cylinders for the sole purpose of safety drills.																								0	10
Total score																							0	20		
Minimum ranking score required for element 1300 = 10																										
M	1400	Control of drugs & alcohol onboard / Medical examination									0															
M/RR	1400.1	As part of the Drug & Alcohol policy, does the company have a system which ensures that every current crew member is tested for drugs and alcohol in an unannounced way at any time in the last 12 months by means of a 3rd party?																							0	15
RR	1400.2	Are crew members subject to unannounced alcohol testing onboard as initiated by the office?																							0	15
RR	1400.4	Does the company have a procedure that a medical examination for crew members and office personnel regularly visiting ships includes testing on effects from carried cargoes?																							0	10
Total score																							0	40		
Minimum ranking score required for element 1400 = 30																										
1500	Emergency Response System								0				0													
1500.1	Is there a policy for implementation of an ERS for the tanker 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
Total score																							0	75		
Minimum ranking score required for element 1500 = 55																										

CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LPG CARRIER - VERSION 2018

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			1600	Computer Systems, Networks, Data Security and Training. GA requirement				●														●				
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
Total score																							0	65		
Minimum ranking score required for element 1600 = 40																										
1700	Noise and Vibration Management																									
	Noise/Vibration Monitoring and Measures																									
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
	Noise Mitigation and Health Hazards																									
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
Total score																							0	65		
Minimum ranking score required for element 1700 = 25																										


CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LPG CARRIER - VERSION 2018																										
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			1710	Underwater Noise and Vibration Management																						
1710.1	Is it company practice to design a newbuild ship in such a manner to attenuate/reduce underwater noise?																							0	10	
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?																							0	10	
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	
Total score																							0	30		
Minimum ranking score required for element 1710 = 0																										
2000	NAVIGATION / BRIDGE OPERATIONS																									
2100	Navigation																									
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	
RN/M	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	
N	2100.19	Alternative to 2100.18: 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	
Total score																							0	120		
Minimum ranking score required for element 2100 = 50																										

CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LPG CARRIER - VERSION 2018

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			2111	Electronic chart display & information systems / ECDIS																							
		Applicable to the companies with ships for which carriage of ECDIS is compulsory																									
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	
			Total score																				0	60			
			Minimum ranking score required for element 2111 = 35																								
2120	Fuel Change Over / Ballast Water Exchange																										
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	
			Total score																				0	20			
			Minimum ranking score required for element 2120 = 20																								
2300	Mooring Operations																										
2300.1	Does the company have procedures/instructions for mooring/unmooring operations?																								0	10	
																									0	10	
			Total score																				0	10			
			Minimum ranking score required for element 2300 = 10																								

CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LPG CARRIER - VERSION 2018

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			3000	MACHINERY / ENGINE OPERATIONS																						
3100	Bunker Operations					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	
																								0	50	
3200	Fuel Oil Testing, Bunker Alerts & Marpol Bunkering Requirements & Additional Green Award requirements					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	
	3200.2, 3200.3 & 3200.4 are alternatives to 3200.1																									
3200.2	Is it company procedure that fuel oil is always tested in a laboratory <u>before</u> use on board? Except for deliveries (with dedicated barges and product specification confirmation) from suppliers approved by the company.																							0	10	
3200.3	Is fuel oil obtained from "high risk" bunker ports & ports to which an alert is applicable, tested in a laboratory before use on board ?																							0	10	
3200.4	Must untested fuel from approved suppliers be monitored for its quality and may it be tested in a laboratory if specifications are in doubt?																							0	10	
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	
																								0	90	


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			4000	CARGOES / CARGO OPERATIONS																						
4100	LPG Carrier Cargo Operations & Additional Green Award requirements																									
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	
4100.5	Is company aware of cargo specifications which are required by the charterer of the ship?																							0	10	
4100.6	Does the company distribute relevant cargo instructions to the vessel? (e.g. is ship compatible for intended cargo)																							0	20	
4100.7	Are there procedures to ensure that a sufficient number of personnel is available in case of emergency during port stay?																							0	10	
4100.14	Is it a company policy that all ESD points are tested on regular basis?																							0	10	
4100.27	Is it a company policy that a pre-arrival checklist is completed at least within 24 hours and sent to the office at least 12 hrs prior to arrival?																							0	10	
4100.28	Is it a company policy that the vessels send a pre-loading / discharging (cargo) plan to the office?																							0	10	
4100.29	Does the company provide instruction (matrix) for tanks preparation for the next cargo?																							0	10	
4100.30	Does the company provide a step-by-step procedure for the process of draining the loading lines and hoses before loading arms get disconnected?																							0	10	
4100.31	Does the company provide a procedure for carrying incompatible cargoes?																							0	10	
4100.32	Does the company provide procedure for minimizing the vapor loss during tank atmosphere change?																							0	10	
4100.33	Is it a company policy that a leak test of the cargo arm/hose connection to the manifold is conducted prior to commencing the cargo transfer?																							0	10	
Total score																							0	160		
Minimum ranking score required for element 4100 = 110																										
4200	Ship to Ship Transfer Operations																									
4200.5	Is it company policy to verify with the STS-operator that approved equipment is used for the intended STS operation?																							0	40	
Total score																							0	40		
Minimum ranking score required for element 4200 = 40																										

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5000	PREVENTION OF POLLUTION																										
5200	Waste Management / Garbage Handling Onboard				0		0		0																		
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	
																									Total score	0	100
RR																											

Minimum ranking score required for element 5200 = 55


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					Air Emission Reduction																					
5410	NOx Emissions				0		0																			
5410.1	For ships keel laid on/after 01-01-2000 Does the company have a policy to initiate measures to reduce NOx emissions, below the Marpol limit, on existing main engines?																							0	20	
5410.2	For ships keel laid on/after 01-01-2000 Does the company have a policy to initiate measures to reduce NOx emissions below the Marpol limit on existing auxiliary engines?																							0	20	
5410.3	For ships keel laid between 01-01-1990 and 01-01-2000. (see Revised Marpol Annex VI) Is it company policy to install an "approved method" for NOx reduction on diesel engines? * Installation takes place as soon as possible after "approved method" is certified by the administration * Applies to diesel engines power output >5,000 kW + per cylinder displacement at/above 90 litres																							0	40	
			Total score																				0	80		
			Minimum ranking score required for element 5410 = 0																							
	Measures taken to reduce NOx emissions					0																				
	Modified fuel injection valves																									
	Electronically Controlled Main Engine (Low NOx operation)																									
	Electronically Controlled Auxiliary Engines																									
	Dual Fuel* Engine (main engine &/or auxiliary engines) *engine capable of operating on fuel oil or natural gas																									
	Exhaust Gas Recirculation																									
	Scavenge air moisturisation system																									
	Selective catalytic reduction system																									
	Other :																									


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			5420	Sulphur Content of Fuel				0		0								0								
5420.1	Is a record of fuel suppliers from past voyages maintained in order to plan (where possible) future bunker supplies with lower sulphur content?																								0	15
5420.2	Is this information brought to the attention of the charterer?																								0	15
5420.7	Is it company policy to record statistics on average sulphur content of fuel for all bunker types? (per ship)																								0	20
5420.3	Is evidence available from previous statistics that the company has succeeded in reducing the annual average of sulphur content of fuel to max. 2.43%? (GA requirement) * Sulphur content = % volume ; data is taken from fuel quality test results * Data is recorded on company format emission monitoring environmental report																								0	20
5420.5	Is it company policy for vessels to <u>voluntarily</u> use low sulphur fuel (max. 0.50% sulphur) or an approved exhaust gas cleaning system during every port approach around the world? <i>(If exhaust gas cleaning system used, sulphur content is measured with a SO2:CO2 ratio. Ratio of max. 21.7 is equal to 0.50% sulphur content).</i>																								0	40
5420.6	Is it company policy for vessels to <u>voluntarily</u> use low sulphur fuel (max. 0.50% sulphur) or an approved exhaust gas cleaning system at anchor & during every port stay around the world? <i>(If exhaust gas cleaning system used, sulphur content is measured with a SO2:CO2 ratio. Ratio of max. 21.7 is equal to 0.50% sulphur content).</i>																								0	50
Total score																							0	160		
Minimum ranking score required for element 5420 = 50																										
	Measures taken to reduce SOx emissions				0																					
	Low sulphur residual fuel (HFO)																									
	Low sulphur distillate (Marine Diesel Oil)																									
	Low sulphur distillate (Marine Gas Oil)																									
	Dual Fuel* Engine (main engine &/or auxiliary engines) *engine capable of operating on fuel oil or natural gas																									
	Exhaust gas scrubber																									
	Other :																									
5421	Ships required to carry out Fuel Change Over to low sulphur MARINE DIESEL OIL or low sulphur MARINE GAS OIL (low sulphur Distillates)					0																				
5421.1	Has the company carried out a safety assessment with respective manufacturers, for any necessary modifications to the vessel's boilers and each fuel system onboard? (modifications should be class approved)																								0	30
5421.2	Does company policy require updated fuel change over procedures (company approved) to be available onboard for the main engine, auxiliary engines and boilers? (procedures should be available for each fuel type used onboard)																								0	10
Total score																							0	40		
Minimum ranking score required for element 5421 = 40																										


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			5430	Particulate Matter (PM) Emissions					0																	
5430.1	Are measures implemented on company vessels to reduce particulate matter (PM) emissions from the main engine ?																								0	20
5430.2	Are measures implemented on company vessels to reduce particulate matter (PM) emissions from auxiliary engines ?																								0	30
5430.3	Is a PM baseline measured for each ship? (Baseline is a measurement of annual PM emissions before reduction measures are implemented)																								0	10
5430.4	Is an annual reduction of PM emissions recorded per ship? (relative to ship's PM baseline)																								0	20
5430.5	Is it company policy to install an electronically controlled improved cylinder lubrication system on Main Engines of company ships? (system is installed & commissioned by engine manufacturer)																								0	30
Total score																							0	110		
Minimum ranking score required for element 5430 = 0																										
	Measures taken to reduce PM emissions					0																				
	Modified fuel injection valves																									
	Electronically Controlled Main Engine																									
	Electronically Controlled Auxiliary Engines																									
	Dual Fuel* Engine (main engine &/or auxiliary engines) *engine capable of operating on fuel oil or natural gas																									
	Low sulphur residual fuel (HFO) or low sulphur distillate fuel (MDO or MGO)																									
	Exhaust gas scrubber																									
	Adjustable vane turbochargers																									
	Other :																									


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5440	CO2 emissions / Energy Efficiency				0		0																			
5440.1	Is data for newbuild vessels, recently delivered or expected soon, provided to the vessel's flag state or industry association, to enable an assessment of the Energy Efficiency Design Index (EEDI)? (Reporting of actual ship data will assist with development of upcoming IMO regulations for the Energy Efficiency Design Index for future newbuilds)																							0	10	
5440.2	Has the company developed a Company Energy Efficiency Management Plan for its fleet? (The plan is an evaluation of energy efficiency measures appropriate for individual ships, and also procedures for implementation of these measures, monitoring of the fleet's energy efficiency & assessing whether the measures are effective.)																							0	20	
5440.3	Are Ship Energy Efficiency Management Plans - vessel specific - included in the Company Plan? (These plans include energy efficiency measures specific to the vessel and procedures for measurement, recording and reporting of energy efficiency. Responsibilities for shore and ship staff should be clearly divided. Administrative burden to the ship should be kept to a minimum.)																							0	20	
5440.4	Are documented procedures available in the Company Plan for familiarisation and training of shipboard personnel concerning implementation of energy efficiency measures and measuring/monitoring systems used onboard?																							0	10	
5440.5	Is an energy efficiency baseline measured for each ship (over the period of one year), using the IMO Energy Efficiency Operational Indicator and a Rolling Average? (baseline is a measurement of the ship's energy efficiency before improvement measures are implemented.)																							0	20	
5440.6	Alternative to 5440.5 & 5440.7 Is an energy efficiency baseline measured for each ship (over the period of one year), using a calculation of fuel consumption?																							0	10	
5440.7	Alternative to 5440.5 & 5440.6 Is an energy efficiency baseline measured for each ship (over the period of one year), using measurement of CO2 emissions from emission monitoring equipment? * Measurement unit = Energy Efficiency Operational Indicator (EEOI) or other units with conversion to EEOI ; * System is calibrated according to OEM or class instructions + Recording System is installed in a suitable location e.g. Air conditioned space																							0	20	
5440.8	Is an annual evaluation carried out in relation to energy efficiency measures implemented per ship? (The evaluation assesses effectiveness of measures implemented per ship. It includes use of monitoring tools such as the ship's Energy Efficiency Operational Indicator, fuel consumption or CO2 emission monitoring to measure improvements)																							0	20	
5440.9	Is an annual improvement in energy efficiency achieved on the company fleet? (shown by improvement of the Energy Efficiency Operational Indicator for individual ships, a reduction of fuel consumption fleet-wide or reduction of CO2 emissions fleet-wide as shown by monitoring equipment (measuring unit = EEOI)																							0	30	
																							Total score		0	130
																							Minimum ranking score required for element 5440 = 0			

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		Energy efficiency measures implemented onboard company vessels					0																				
		<i>For ease of use, measures are listed according to the INTERTANKO Guide for a tanker energy efficiency management plan (1st edition). Please note that measures should be applied according to company needs & individual ship characteristics. IMO guidelines (MEPC.1/Circ 683) also provide options to improve efficiency.</i>																									
		Measures related to Voyage Optimisation																									
		Measures related to Propulsion Resistance (hull & propeller)																									
		Measures related to Machinery Optimisation																									
		Measures related to Cargo Handling Optimisation																									
		Accommodation-related measures																									
		Other measures implemented onboard company vessels																									
		Adjustable vane turbochargers																									
		Electronically Controlled Main Engine																									
		Electronically Controlled Auxiliary Engines																									
		Dual Fuel* Engine (main engine &/or auxiliary engines) *engine capable of operating on fuel oil or natural gas																									
		Integrated rudder / propeller design																									
		Improved propeller design (e.g. larger propeller diameter combined with low rotational speed)																									
		Propeller modification to restore optimal match between propeller speed & engine power (only in case of a "heavy running" propeller)																									
		Towing kite system																									
		Air lubricated hull design																									
		Shore side electricity																									
		Other :																									
5450		Newbuild policy			0		0																				
5450.1		Does the company policy for newbuilds implement additional measures to reduce harmful air emissions (NOx, SOx and PM) and improve energy efficiency (reduce CO2 or fuel consumption)?																							0	40	
			Total score																				0	40			
			Minimum ranking score required for element 5450 = 0																								
5460		Environmental Ship Index (ESI)			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	
			Total score																				0	50			
			Minimum ranking score required for element 5460 = 0																								

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				5500 Sewage Management																						
		Alternative 1: Sewage Treatment Plant																								
N	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	
N	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	
N	5500.4	Does the company have a procedure to monitor and address any non-compliance in the effluent standards?																						0	15	
		Alternative 2: Sewage comminuting and disinfecting system																								
N	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	
		For all ships: Sewage Holding Tank																								
N	5500.6	Did the company perform a risk assessment to calculate the capacity of the holding tank?																						0	5	
																								0	55	
			Minimum ranking score required for element 5500 = 5																							
	5510 Grey Water Management																									
N	5510.1	Is it company policy to install a sewage treatment plant capable of treating grey water?																						0	15	
N	5510.2	Is it company policy to not discharge grey water within coastal and port areas?																						0	10	
																								0	25	
			Minimum ranking score required for element 5510 = 0																							

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			5812	Deck equipment lubrication (use of oils)					0									0								
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
Total score																							0	55		
Minimum ranking score required for element 5812 = 0																										
5820	Management of bilge water and sludge handling onboard			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 ER drip trays, drains, scuppers, gutters are labeled, which corresponds to the specific tanks or drains, 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
Total score																							0	30		
Minimum ranking score required for element 5820 = 15																										


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			5822	Outfitting of sludge handling system				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
Total score																							0	35		
Minimum ranking score required for element 5822 = 5																										
5900	Ship Recycling - Inventory of Hazardous Materials		0		0		0																			
	New buildings - For Owner / Managers and 3rd-party Ship Managers For 5900.1, 5900.12 and 5900.2																									
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
	Existing ships - For Owner / Managers and 3rd-party Ship Managers For 5900.10, 5900.13 and 5900.3																									
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	Alternative to 5900.10 and 5900.3: 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	Alternative to 5900.10 and 5900.13: 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	15
Total score																							0	100		
Minimum ranking score required for element 5900 = 40																										


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			5910	Ship Recycling - Policy for ships due to be recycled		0		0		0																
	For Owner / Managers only (Not applicable to 3rd-party ship managers)																									
5910.1	Has a company policy been implemented within the Management System that vessels due for recycling will only be sold directly to a recycling facility?																							0	20	
5910.2	Has a company procedure been implemented within the Management System to audit a recycling facility before "contract of sale"?																							0	40	
5910.3	Alternative to 5910.1 and 5910.2: Has a company policy been implemented within the Management System that vessels due for recycling will only be sold to a "cash buyer"?																							0	10	
5910.4	Has a company policy been implemented that the "contract of sale" will include the requirement to develop a "Ship Recycling Plan" by the recycling facility (in consultation with the owner) or does the "contract of sale" with the cash buyer include the obligation to request such a plan upon sale to the recycling facility?																							0	20	
5910.5	Has a company procedure been implemented within the Management System that a Final Survey, by an independent organization, will be carried out on the "Inventory of Hazardous Materials" (Part I, Part II and Part III) before delivery to either the recycling facility or cash buyer?																							0	20	
5910.6	(Preparation of vessel before delivery) Has a company procedure been implemented to ensure that the vessel's cargo spaces & other compartments where possible, will be delivered to either the recycling facility or cash-buyer in a "gas-free & safe for entry and hot work" condition?																							0	20	
5910.7	(Preparation of vessel before delivery) Has a company procedure been implemented to clearly mark all compartments which could have an oxygen deficient or dangerous atmosphere? (e.g. cofferdams, fuel oil tanks, waste oil tanks, black/grey water tanks, etc.)																							0	20	
																								0	140	
			Minimum ranking score required for element 5910 = 60																							
6000	MAINTENANCE / SURVEYS																									
6100	Programme of Inspections					0		0																		
6100.1	Has the company developed an internal technical inspection programme?																							0	10	
6100.2	Does the company have relevant previous survey and internal technical inspection reports?																							0	10	
6100.3	Does the company have a repair history on each vessel?																							0	10	
6100.4	Does the company have procedures/instructions for hull / ship's construction condition-inspections to be carried out by ship's personnel?																							0	20	
6100.6	Does the company have information regarding the relevant maintenance level of the vessel?																							0	10	
6100.7	Is an owner's inspection report available?																							0	10	
																								0	70	
			Minimum ranking score required for element 6100 = 60																							

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			6110	Critical and Stand-by Equipment		0		0		0																
6110.1	Is the risk assessment carried out in order to create a list of critical equipment for every ship after intermediate survey (at least every 2.5 years)?																								0	10
6110.2	Does the list of critical equipment include and specify stand-by equipment for every ship?																								0	10
6110.3	Is the feedback from the ship considered in the process of creating a list of critical equipment? (eg. PMS reports)																								0	10
6110.4	Is it company policy to categorize the ship into departments as per TMSA (OCIMF) in the process of creating a list of critical equipment?																								0	5
6110.5	Is it company policy to install a Computer Based Program to register failures, break downs and near misses in order to have a constant event report on the systems?																								0	10
6110.6	Are those event reports considered in creating a list of critical equipment?																								0	10
6110.7	Is it company policy to install a Computer Based Program for spare parts management of critical equipment and stand-by equipment?																								0	10
6110.8	Is it company policy to have safety stock inventory reports for critical equipment and stand-by equipment?																								0	10
Total score																							0	75		
Minimum ranking score required for element 6110 = 30																										
6200	Mooring Equipment					0									0											
6200.1	Does the company have instructions for carrying out winch brake tests (to be carried out at least once a year or after an excessive load)?																								0	10
6200.2	Does the company provide the ship with a winch brake test kit?																								0	5
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 the company give guidance for an additional examination after unusual events such as long periods of inactivity, excessive loads, heat exposure, loading/discharge at swell ports, etc?																								0	5
6200.10	Does the company give instructions for internal inspections and 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 "workingdays" of mooring wires and tails / fibre ropes maintained? (to predict the point of discard & for evaluation of wire/rope performance)																								0	10
6200.7	Does the company provide the ship(s) with an automatic wire rope lubricator?																								0	10
6200.12	Alternative for 6200.7: (for fibre ropes) Are there procedures for care of fibre ropes?																								0	10
Total score																							0	75		
Minimum ranking score required for element 6200 = 45																										

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			6300	Corrosion Prevention of Seawater Ballast Tanks					●																	
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	For existing vessels: Are ballast tanks coated with a hard coating of a light colour?																								0	10
6300.6	For existing vessels: 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
Total score																							0	75		
Minimum ranking score required for element 6300 = 40																										
6400	Condition Assessment Program, Maintenance Additional Green Award requirements		●				●																			
	For Owner/Managers																									
M	6400.1	Is it company policy that a condition assessment for <u>Hull</u> will be carried out on vessels more than <u>15 years old</u> , or by the <u>end of the 3rd special survey</u> , whichever is earlier?																							0	25
M	6400.8	Is it company policy that a condition assessment for <u>Cargo Systems</u> will be carried out on vessels more than <u>15 years old</u> , or by the <u>end of the 3rd special survey</u> , whichever is earlier?																							0	20
M	6400.9	Is it company policy that a condition assessment for <u>Machinery</u> will be carried out on vessels more than <u>15 years old</u> , or by the <u>end of the 3rd special survey</u> , whichever is earlier?																							0	20
		6400.10, 6400.11 & 6400.12 are alternatives to 6400.1, 6400.8 & 6400.9 For 3rd-party Ship Managers																								
M	6400.10	Is it company policy to request ship owners to carry out condition assessment for <u>Hull</u> on vessels more than <u>15 years old</u> , or by the <u>end of the 3rd special survey</u> , whichever is earlier?																							0	25
M	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>15 years old</u> , or by the <u>end of the 3rd special survey</u> , whichever is earlier?																							0	20
M	6400.12	Is it company policy to request ship owners to carry out condition assessment for <u>Machinery</u> on vessels more than <u>15 years old</u> , or by the <u>end of the 3rd 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
Total score																							0	120		
Minimum ranking score required for element 6400 = 60																										


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7300	Training / Courses for Personnel 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 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 familiarization 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 1.35) ?																								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	Alternative for 7300.8 & 7300.19 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 of company related courses 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?																								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?																								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?																				
	7300.16	Is it company policy that masters are required to complete a fire fighting training that specifically addresses chemical fires ?																						0	15
	7300.17	Is it company policy that all the officers are to complete Security Awareness Training ?																						0	5
Total score																							0	185	
Minimum ranking score required for element 7300 = 85																									
7400	Familiarisation, Additional Green Award Requirement																								
	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
	7400.9	Does the company have a method in which senior officers are deployed onboard within the company fleet? (eg. Senior officers returning to the same vessel)																						0	10
	7400.8	Does the company have a method in which junior officers are deployed onboard within the company fleet? (eg. Junior officers rotating among the companies fleet)																						0	10
N	7400.10	In those cases when junior or senior officers are transferred to another class of ship that differ considerably from where their experience lie, is an onboard appropriate operational experience with previous off-signing officers implemented for a specific minimum period?																						0	10
	7400.4	Is it company policy that a company format handover report is requested from all off-signing officers onboard ?																						0	10
Total score																							0	80	
Minimum ranking score required for element 7400 = 50																									
7500	Safe Manning and Fatigue Management																								
	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
Total score																							0	70	
Minimum ranking score required for element 7500 = 50																									

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




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9000	REQUIREMENTS ACCORDING TO NEN-EN ISO 9001:2000																										
9401	MANAGEMENT RESPONSIBILITY		Included in ISM: See BASIC criteria																								
9402	QUALITY SYSTEM		Included in ISM: See BASIC criteria																								
9403	CONTRACT REVIEW		Included in ISM: See BASIC criteria																								
9404	DESIGN CONTROL		Not applicable																								
9405	DOCUMENT CONTROL		Included in ISM: See BASIC criteria																								
9406	PURCHASING																										
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
			Total score																								
																										0	60
			Minimum ranking score required for element 9406 = 60																								
9407	PURCHASER SUPPLIED PRODUCT																										
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
			Total score																								
																										0	40
			Minimum ranking score required for element 9407 = 40																								
9408	PRODUCT IDENTIFICATION AND TRACEABILITY																										
9408.1	Are working procedures available ?																									0	10
9408.2	Is product identification registered?																									0	10
			Total score																								
																										0	20
			Minimum ranking score required for element 9408 = 20																								
9409	PROCESS CONTROL		Included in ISM: See BASIC criteria																								
9410	INSPECTION AND TESTING		Included in ISM: See BASIC criteria																								
9411	INSPECTION, MEASURING AND TEST EQUIPMENT																										
9411.1	Is an overview of certificates of these apparatus available?																									0	10
			Total score																								
																										0	10
			Minimum ranking score required for element 9411 = 10																								

CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LPG CARRIER - VERSION 2018																											
Revision Code	Norm Item	 <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h2 style="margin: 0;">RANKING</h2> <p style="margin: 0;">Office - LPG</p> </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		
			9412	INSPECTION AND TEST STATUS					o		o																
9412.1	Are working procedures available?																								0	10	
9412.2	Is a status quo report of e.g. coating of tanks available?																								0	10	
																									Total score	0	20
																											Minimum ranking score required for element 9412 = 20
9413	CONTROL OF NON CONFORMING PRODUCT																										
9414	CORRECTIVE ACTION																										
9415	HANDLING, STORAGE, PACKAGING AND DELIVERY												o														
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	
																									Total score	0	30
																											Minimum ranking score required for element 9415 = 30
9416	QUALITY RECORDS																										
9417	INTERNAL QUALITY AUDITS																										
9418	TRAINING																										
9419	SERVICING																										
9420	STATISTICS (See also vessel requirements)					o		o		o		o		o		o		o		o							
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	
																									Total score	0	20
																											Minimum ranking score required for element 9420 = 20

CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LPG CARRIER - VERSION 2018						
Norm Item		TOTAL SCORE REVIEW OFFICE AUDIT - LPG CARRIER	OFFICE RANKING SCORE	MAXIMUM OBTAINABLE RANKING SCORE	MINIMUM RANKING SCORE REQUIRED	ELEMENTS WITH NO MINIMUM SCORE
1000	GENERAL					
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 / Medical examination		0	40	30	
1500	Emergency Response System		0	75	55	
1600	Computer Systems, Networks, Data Security and Training. GA requirement		0	65	40	
1700	Noise and Vibration Management		0	65	25	
1710	Underwater Noise and Vibration Management		0	30	0	
2000	NAVIGATION / BRIDGE OPERATIONS					
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	
3000	MACHINERY / ENGINE OPERATIONS					
3100	Bunker Operations		0	50	50	
3200	Fuel Oil Testing, Bunker Alerts & Marpol Bunkering Requirements & Additional Green Award requirements		0	90	70	
4000	CARGOES / CARGO OPERATIONS					
4100	LPG Carrier Cargo Operations & Additional Green Award requirements		0	160	110	
4200	Ship to Ship Transfer Operations		0	40	40	
5000	PREVENTION OF POLLUTION					
5200	Waste Management / Garbage Handling Onboard		0	100	55	
5400	Air Emission Monitoring		0	130	0	
5410	NOx Emissions		0	80	0	
5420	Sulphur Content of Fuel		0	160	50	
5421	Ships required to carry out Fuel Change Over to low sulphur MARINE DIESEL OIL or low sulphur MARINE GAS OIL (low sulphur Distillates)		0	40	40	
5430	Particulate Matter (PM) Emissions		0	110	0	
5440	CO2 emissions / Energy Efficiency		0	130	0	
5450	Newbuild policy		0	40	0	
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	

CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LPG CARRIER - VERSION 2018						
Norm Item		TOTAL SCORE REVIEW OFFICE AUDIT - LPG CARRIER	OFFICE RANKING SCORE	MAXIMUM OBTAINABLE RANKING SCORE	MINIMUM RANKING SCORE REQUIRED	ELEMENTS WITH NO MINIMUM SCORE
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	
6000		MAINTENANCE / SURVEYS				
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	
7000		CREW				
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	185	85	
7400		Familiarisation, Additional Green Award Requirement	0	80	50	
7500		Safe Manning and Fatigue Management	0	70	50	
9000		REQUIREMENTS ACCORDING TO NEN-EN ISO 9001:2000				
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	
		TOTAL SCORES	0	3580	1665	

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.
	Indicates that an alternative is used, hence the score for that item is a "0".
	The checklist was filled in incorrectly, thus shows "error".
	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 under "Certification/ Download".


APPENDIX 3


CHECKLIST - BASIC CRITERIA - SURVEY - LPG CARRIER

(PMC-08)

CHECKLIST - BASIC CRITERIA - SHIP SURVEY - LPG CARRIER - VERSION 2018																			
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 - LPG</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
			100	MANAGEMENT ELEMENTS															
101	GENERAL		<input checked="" type="checkbox"/>																
101.1	Are the Management System (MS) Manuals maintained and updated?																		
102	SAFETY AND ENVIRONMENTAL PROTECTION POLICY		<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"/>		
102.1	Is the company policy concerning safety and the environment available, posted and implemented at all levels?																		
103	COMPANY RESPONSIBILITIES AND AUTHORITY		<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"/>		
103.1	Are the responsibilities and authorities of all shipboard personnel clearly defined and implemented?																		
103.2	Are shore-ship communications, defined levels of authority and lines of communication documented and working effectively ?																		
104	DESIGNATED PERSONS		<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"/>		
104.2	Is (are) (a) designated person(s) known on board?																		
104.3	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 ?																		
105	MASTER'S RESPONSIBILITY AND AUTHORITY		<input checked="" type="checkbox"/>																
105.1	Is the responsibility of the master clearly defined and documented?																		
105.2	Does the master implement the Company's safety and environmental-protection policy on board?																		
105.3	Does the master motivate the crew in the observation of that policy?																		
105.4	Does the master verify that specified requirements are observed?																		
105.5	Does the master review the MS and are its deficiencies reported to the shore-based management?																		
106	RESOURCES AND PERSONNEL AND STCW		<input checked="" type="checkbox"/>								<input checked="" type="checkbox"/>								
106.1	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?																		
106.4	Are shipboard personnel informed about new/revised rules, regulations, codes and guidelines?																		
106.6	Does ship's personnel receive training/courses which are required in support of the MS?																		
106.11	Is the working language between the office and the vessels defined?																		
106.12	Are all senior and deck officers conversant in the English language for maritime communication?																		
106.13	Is relevant information on the MS written in a working language or languages understood by officers and shipboard personnel?																		
106.14	Is the working language monitored and checked by the ship's staff?																		
106.15	Are new personnel and personnel transferred to new assignments, given proper familiarisation with their duties?																		
106.16	Are instructions, which are essential prior to sailing, identified, documented and given to the new personnel?																		
106.17	Is the Master fully conversant with the Company's Management Systems?																		

CHECKLIST - BASIC CRITERIA - SHIP SURVEY - LPG CARRIER - VERSION 2018																				
Revision Code	Norm item	 <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h1 style="margin: 0;">BASIC</h1> <h2 style="margin: 0;">Ship - LPG</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	
				107	DEVELOPMENT OF PLANS FOR SHIPBOARD OPERATIONS	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>
	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	EMERGENCY PREPAREDNESS	<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"/>			
	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	REPORTS AND ANALYSES OF NON-CONFORMITIES, ACCIDENTS AND HAZARDOUS OCCURENCES	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>			
	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	MAINTENANCE OF THE SHIP AND EQUIPMENT	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>			
	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	DOCUMENTATION	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>			
	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 - SHIP SURVEY - LPG CARRIER - VERSION 2018																			
Revision Code	Norm item	 <div style="border: 1px solid black; padding: 10px; text-align: center; margin-top: 10px;"> <h2 style="margin: 0;">BASIC</h2> <h3 style="margin: 0;">Ship - LPG</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
				217	Safety of Navigation / SOLAS chart carriage requirements	○				○									
		Alternative 1: Compulsory carriage of ECDIS, with full official ENC coverage																	
	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?																	
		Alternative 2: Compulsory carriage of ECDIS, Navigation with official ENCs where available and official RNCs where ENCs are not available																	
	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?																	
		Training & Onboard Use of ECDIS (Compulsory carriage of ECDIS)																	
	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	Noise Levels On Board Ships																	
		<i>(Only applicable to new ships of a gross tonnage of 1,600 and above.)</i>																	
N	218.1	Is the noise survey report available onboard?																	
N	218.2	Are noise areas marked by placing relevant visible warning notices at the entrance to these areas? (IMO noise symbols)																	


CHECKLIST - BASIC CRITERIA - SHIP SURVEY - LPG CARRIER - VERSION 2018																			
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 - LPG</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
			300	MARPOL 73/78															
301	Provisions concerning Reports on Incidents Involving Harmful Substances (Protocol 1)		○		○														
301.1	Does the Master have a procedure in order to report an incident to the nearest coastal state?																		
310	Prevention of pollution by oil		○		○		○		○		○		○		○		○		
310.2	Is SMPEP maintained and updated for oil pollution emergency procedures?																		
310.5	Are updated contact lists of coastal States, port contacts and ship interest contacts available?																		
310.6	Does the company have a policy concerning the retention and disposal of oil residues (sludge)?																		
310.8	Are actions and responsibilities of the shipboard personnel clearly described in oil pollution emergency procedures of the SMPEP ?																		
310.9	Does the plan provide procedures for the removal of oil spilled and contained on deck?																		
310.10	Does the plan provide guidance to ensure proper disposal of removed oil and clean-up materials?																		
320	Prevention of pollution by cargo																		
320.2	Is the shipboard marine pollution emergency plan maintained and updated?																		
320.8	Are actions and responsibilities of the shipboard personnel clearly described in the SMPEP ?																		
320.9	Does the plan provide procedures for the removal of product spilled and contained on deck?																		
320.10	Does the plan provide guidance to ensure proper disposal of removed product and clean-up materials?																		
320.11	Does the plan include a list of information required for making damage stability and damage longitudinal strength assessments?																		
350	Prevention of pollution by garbage		○		○		○		○		○		○		○		○		
350.2	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?																		
350.3	Are records kept according to the garbage management plan?																		

APPENDIX 4


CHECKLIST - RANKING CRITERIA - SURVEY - LPG CARRIER

(PMC-09)


CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG CARRIER - VERSION 2018

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 - LPG</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	
			1000 GENERAL																			
M	1100	Data Monitoring and Recording Equipment	0		0		0														0	10
M/RR	1100.1	For ships constructed before 01/07/2002, is the vessel equipped with a "full" VDR?																			0	5
M/RR	1100.2	Is the vessel equipped with a CCTV system, which has cameras located in <u>open deck spaces</u> ?																			0	5
N	1100.6	Is the vessel equipped with a CCTV system, which has cameras located in <u>engine room</u> ?																			0	5
N	1100.7	Is the vessel equipped with a CCTV system, which has cameras located in <u>cargo spaces</u> ?																			0	5
RR			Total score																		0	25
RR			Minimum ranking score required for element 1100 = 0																			
	1200	Enclosed Space Entry & Hot Work			0		0		0		0		0		0						0	10
	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 oxygen, flammable gases or vapours (% of LFL), carbon monoxide and hydrogen sulphide?																			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
	1200.16	Is a ship specific list which identifies onboard enclosed spaces available onboard?																			0	5
	1200.17	Is the crew aware of PPE appropriate for low temperatures and liquefied gases cargoes?																			0	5
			Total score																		0	80
			Minimum ranking score required for element 1200 = 80																			
	1300	Compressor for the refilling of air cylinders for breathing apparatus or Alternative, Additional Green Award requirement									0											
	1300.1	Does the vessel have a compressor for the refilling of air cylinders for breathing apparatus?																			0	20
	1300.2	Alternative for 1300.1: sufficient number of air cylinders for the sole purpose of safety drills.																			0	10
			Total score																		0	20
			Minimum ranking score required for element 1300 = 10																			
M	1400	Control of drugs & alcohol onboard / Medical examination	0						0				0						0			
M/RR	1400.1	Have all current crew members been tested for drugs and alcohol in an unannounced way at any time in the last 12 months by means of a 3rd party?																			0	15
M/RR	1400.2	Is evidence of an unannounced alcohol testing initiated by the office available onboard?																			0	15
M/RR	1400.4	Have all crew members been tested for effects of carried cargoes during a medical examination?																			0	10
			Total score																		0	40
			Minimum ranking score required for element 1400 = 30																			


CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG CARRIER - VERSION 2018

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 - LPG</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	
1500	Emergency Response System		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
			Total score																		0	80
			Minimum ranking score required for element 1500 = 60																			
1600	Computer Systems, Networks, Data Security and Training. GA requirement		0								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
			Total score																		0	60
			Minimum ranking score required for element 1600 = 30																			
1700	Noise and Vibration Management																					
	Noise/Vibration Monitoring and Measures																					
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
	Noise Mitigation and Health Hazards																					
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
			Total score																		0	50
			Minimum ranking score required for element 1700 = 15																			


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			1710 Underwater Noise and Vibration Management																			
	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 NAVIGATION / BRIDGE OPERATIONS																						
2100 Navigation			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
N	2100.13	Is the vessel using weather routing services while on long haul voyage?																			0	10
RN/M	2100.18	Is the vessel enrolled in a meteorological & oceanographic service in a form of a software application?																			0	10
N	2100.19	Alternative to 2100.18: 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 Electronic chart display & information systems / ECDIS																						
Applicable to ships for which carriage of ECDIS is compulsory																						
	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 and 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 Fuel Change Over / Ballast Water Exchange			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																						


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			2200 Helicopter / Ship Operations							0		0										
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
Total score																				0	20	
Minimum ranking score required for element 2200 = 20																						
2300 Mooring Operations			0		0				0												0	10
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
Total score																				0	50	
Minimum ranking score required for element 2300 = 30																						
3000 MACHINERY / ENGINE OPERATIONS																						
3100 Bunker Operations							0				0		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
Total score																				0	50	
Minimum ranking score required for element 3100 = 50																						
3200 Fuel Oil Testing, Bunker Alerts, Marpol Bunkering Requirements & Additional Green Award requirements											0											
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
Alternative for 3200.1: 3200.2, 3200.3 & 3200.4																						
3200.2	Is fuel oil always tested in a laboratory <u>before</u> use on board? Except for deliveries (with dedicated barges and product specification confirmation) from suppliers approved by the company.																				0	10
3200.3	Is fuel oil obtained from "high risk" bunker ports & ports to which an alert is applicable, tested in a laboratory before use on board ?																				0	10
3200.4	Is un-tested fuel from approved suppliers monitored for its quality and may it be tested in a laboratory if specifications are in doubt?																				0	10
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
Total score																				0	100	
Minimum ranking score required for element 3200 = 70																						

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	4000	CARGOES / CARGO OPERATIONS																				
	4100	LPG Carrier Cargo Operations & Additional Green Award requirements	0		0																	
	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 give instructions regarding access on board to unauthorised persons?																			0	20
	4100.4	Does the company give procedures/instructions in relation to the entire cargo operations?																			0	10
	4100.6	Does the company distribute relevant cargo instructions to the vessel? (e.g. is ship compatible for intended cargo?)																			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	20
	4100.10	Is there an effective deck watch in attendance on deck during cargo operations?																			0	10
	4100.11	Is a plan for the intended cargo operations available?																			0	10
	4100.12	Is a terminal emergency plan available on board? (CCR)																			0	10
	4100.14	Are all ESD points tested on regular basis?																			0	10
	4100.27	Is a pre-arrival checklist completed at least within 24 hours and sent to the office at least 12 hrs prior to arrival?																			0	10
	4100.28	Does the vessel send a pre-loading / discharging (cargo) plan to the office?																			0	10
	4100.29	Is an instruction (matrix) for tanks preparation for the next cargo posted in CCR?																			0	10
	4100.30	Is a step-by-step procedure for the process of draining the loading lines and hoses before loading arms get disconnected available onboard?																			0	10
	4100.31	Is a procedure of carrying incompatible cargoes posted in CCR? N/A for ships that are certified to carry one grade of cargo at a time?																			0	10
	4100.32	Is a procedure for minimizing the vapor loss available onboard?																			0	10
	4100.33	Is a leak test of the cargo arm/hose connection to the manifold conducted prior to commencing the cargo transfer?																			0	10
		Total score																			0	180
		Minimum ranking score required for element 4100 = 110																				
	4200	Ship to Ship Transfer Operations	0		0						0		0									
	4200.1	Is a STS safety drill carried out not more than seven days preceding a STS transfer operation?																			0	10
	4200.4	Alternative for 4200.1: (for vessels not engaged in regular STS operations) 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	Also for vessels not engaged in regular STS operations in case the ship is ordered to lighter : Are the checklists as described in the Ship to Ship Transfer Guide available for use?																			0	10
	4200.3	Also for vessels not engaged in regular STS operations in case the ship is ordered to lighter : 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
		Total score																			0	30
		Minimum ranking score required for element 4200 = 30																				


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			4400	Additional Green Award Requirements (tank alarms, coatings, etc.)				0														
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 fitted with high and high-high level alarms?																				0	10
4400.3	Is each cargo tank fitted with an independent overfill alarm?																				0	10
4400.12	Is a procedure available for describing the process of delivering coolant ashore prior to the vessel going to dry-dock?																				0	10
4400.13	Is atmosphere of void spaces continuously monitored for gases with alarm in the cargo control room and on the bridge?																				0	40
4400.14	Has the inert-gas installation enough capacity to inert the void spaces as well?																				0	30
4400.20	Are venting mast risers for cargo tank venting systems provided with a fixed system for extinguishing a fire at the vent outlet? (Nitrogen or any other suitable medium)																				0	10
4400.21	Are air condition system intakes equipped with toxic gases detectors?																				0	10
4400.22	Is there a system in place for an efficient handling of non-condensable gases during reliquefaction process which prevents venting non-condensable gases with a high amount of hydrocarbons to the atmosphere?																				0	10
4400.23	Is the primary barrier of the tanks fully insulated?																				0	10
4400.24	Are cargo domes insulated?																				0	10
			Total score																	0	170	
			Minimum ranking score required for element 4400 = 100																			
4500	Hull Stress Monitoring System		0		0																	
4500.1	Does the vessel have a hull stress monitoring system which provide real-time information with readouts both in the CCR and on the bridge?																				0	20
			Total score																	0	20	
			Minimum ranking score required for element 4500 = 0																			


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	5000	PREVENTION OF POLLUTION																				
	5200	Waste Management / Garbage Handling Onboard			0						0						0					
	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
		Garbage Collection																				
	5200.31	Are all collection garbage receptacles for all categories of garbage labelled/marked ?																			0	5
		Garbage Processing																				
	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
		Galley Equipment																				
	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
		Garbage Storage																				
	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
		Garbage Disposal																				
	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																			
			Minimum ranking score required for element 5200 = 55																			


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			5400	Air Emission Monitoring - For the purpose of Environmental Performance Monitoring										0								
5400.10	Is the vessel arranged with an approved monitoring & recording system for NOx ? (System is calibrated according to OEM or class instructions + Recording System is installed in a suitable location e.g. Air conditioned space)																				0	20
5400.17	Alternative to 5400.10 Do the ship staff / shore office monitor NOx emission values for marine diesel engines by means of calculation? (measuring units = g/kWh or other unit with conversion to g/kWh)																				0	15
5400.11	Is the vessel arranged with a monitoring & recording system for SOx ? (system is calibrated according to OEM or class instructions + Recording System is installed in a suitable location e.g. Air conditioned space)																				0	20
5400.18	Alternative to 5400.11 Do the ship staff / shore office monitor fuel sulphur content by means of fuel quality test results? (measuring units = % volume)																				0	15
5400.12	Is the vessel arranged with a monitoring & recording system for CO2 ? (system is calibrated according to OEM or class instructions + Recording System is installed in a suitable location e.g. Air conditioned space)																				0	20
5400.19	Alternative to 5400.12 Do the ship staff / shore office monitor CO2 emissions by means of fuel consumption calculations, or the ship's Energy Efficiency Operational Indicator?																				0	15
5400.13	Is the vessel arranged with a monitoring & recording system for PM (particulate matter) ? (system is calibrated according to OEM or class instructions + Recording System is installed in a suitable location e.g. Air conditioned space)																				0	20
5400.20	Alternative to 5400.13 Do the ship staff / shore office monitor PM emissions, for example by calculation?																				0	15
5400.14	All Ships: Is the above data (emission values from monitoring & recording system or ship staff calculations) forwarded to the company on a regular basis? (minimum quarterly + data is recorded on company format emission monitoring environmental report)																				0	10
Total score																					0	90
Minimum ranking score required for element 5400 = 0																						
Air Emission Reduction																						
5410	NOx Emissions from the Main Engine (Ship keel laid on/after 01-01-2000)										0											
5410.4	Are NOx emissions below Marpol Tier 1?																				0	10
5410.5	Are NOx emissions below Marpol Tier 2?																				0	15
5410.6	Are NOx emissions below Marpol Tier 3?																				0	30
5410.7	Are NOx emissions below Marpol Tier 1?																				0	10
5410.8	Are NOx emissions below Marpol Tier 2?																				0	15
5410.9	Are NOx emissions below Marpol Tier 3?																				0	30
5410.3	For ships keel laid between 01-01-1990 and 01-01-2000 (see Revised Marpol Annex VI) Is an "approved method" installed for NOx reduction on diesel engines? * Installation takes place as soon as possible after "approved method" is certified by the administration * Applies to diesel engines power output >5,000 kW + per cylinder displacement at/above 90 litres																				0	15
Total score																					0	110
Minimum ranking score required for element 5410 = 0																						


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			5421	Ships required to carry out Fuel Change Over to low sulphur Marine Diesel Oil or low sulphur Marine Gas Oil (low sulphur Distillates)										0		0						
5421.1	Has the company carried out a safety assessment with respective manufacturers, for any necessary modifications to the vessel's boilers & each fuel system onboard? (modifications should be class approved)																				0	20
5421.2	Are updated fuel change over procedures (company-approved) available for the main engine, auxiliary engines & boilers? (procedures should be available for each fuel type used onboard)																				0	10
5421.3	Are crew familiarised with updated fuel change over procedures?																				0	10
5421.4	If modifications to fuel system are required, are updated detailed fuel system diagrams for fuel change over available?																				0	10
5421.5	Is an additional inspection carried out according to documented instructions, to check for leakages during distillate fuel operation ?																				0	10
5421.6	Is there an agreed procedure to manage related problem areas? (e.g. spares, maintenance due wear & tear)																				0	10
5421.7	For cases where the vessel must use low sulphur fuel for a <u>prolonged period</u> Are there instructions from the engine manufacturer, for use of appropriate (cylinder) lube oil for main & auxiliary engines?																				0	5
Total score																					0	75
Minimum ranking score required for element 5421 = 55																						
5430	Particulate Matter (PM) Emissions		0								0											
5430.1	Are measures implemented to reduce particulate matter (PM) emissions from the main engine?																				0	20
5430.2	Are measures implemented to reduce particulate matter (PM) emissions from auxiliary engines?																				0	30
5430.5	Does the vessel have an electronically controlled improved cylinder lubrication system for the main engine? (system is installed & commissioned by engine manufacturer)																				0	20
5430.6	If <u>above is installed for main engine</u> : Have ship personnel with responsibility for daily operation of the engine taken part in a manufacturer training course or received familiarisation on operation of the system?																				0	20
Total score																					0	90
Minimum ranking score required for element 5430 = 0																						
	Measures taken to reduce PM emissions		0								0											
	Modified fuel injection valves																					
	Electronically Controlled Main Engine																					
	Electronically Controlled Auxiliary Engines																					
	Dual Fuel* Engine (main engine &/or auxiliary engines) *engine capable of operating on fuel oil or natural gas																					
	Low sulphur residual fuel (HFO) or low sulphur distillate fuel (MDO or MGO)																					
	Exhaust gas scrubber																					
	Adjustable vane turbochargers																					
	Other :																					
5440	CO2 emissions / Energy Efficiency										0											
5440.3	Are ship specific procedures available for shipboard personnel on implementation of energy efficiency measures and use of measurement tools onboard (e.g.. fuel flow meters, measurement of specific fuel consumption per kWh)? Tasks and responsibilities for shipboard personnel should be defined.																				0	30
5440.4	Have shipboard personnel received familiarisation and training for energy efficiency measures and related measuring / monitoring systems onboard?																				0	20
5440.8	Is the vessel in receipt of a shore assessment of the energy efficiency measures implemented onboard & are results communicated amongst the crew?																				0	10
Total score																					0	60
Minimum ranking score required for element 5440 = 0																						

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			5500 Sewage Management																			
Alternative 1: Sewage Treatment Plant																						
N	5500.1	Is the sewage treated with a sewage treatment plant which uses minimal or no use of harmful chemicals?																		0	20	
N	5500.2	Is the treated discharged effluent from the sewage treatment plant collected for sampling periodically for testing?																		0	15	
N	5500.3	Is the ship in possession of the periodical effluent tested sample reports?																		0	15	
N	5500.8	Is the sewage treatment plant regularly checked and maintained as per manufacturer's guidelines?																		0	15	
Alternative 2: Sewage comminuting and disinfecting system																						
N	5500.5	Is the comminuted and disinfected sewage collected for sampling periodically for testing results?																		0	10	
N	5500.9	Is the comminuting and disinfecting system regularly checked and maintained as per manufacturer's guidelines periodically?																		0	10	
For all ships: Sewage Holding Tank																						
N	5500.7	Is the sewage holding tank regularly checked and maintained?																		0	5	
																			Total score		0	70
																			Minimum ranking score required for element 5500 = 5			
5510 Grey Water Management																						
N	5510.1	Is the sewage treatment plant capable of treating grey water before being discharged?																		0	15	
N	5510.2	Is the grey water never discharged within the coastal and port areas?																		0	10	
																			Total score		0	25
																			Minimum ranking score required for element 5510 = 0			
5700 Ballast Water Management																						
	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	
Alternative for 5700.1 - 5700.8																						
	5700.9	Ship has official exemption from a party to the BW Convention (registration in BW record book and / or documented authorisation)																				
																			Total score		0	100
																			Minimum ranking score required for element 5700 = 50			

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			5800 Accidental Bunker Oil Pollution Prevention Measures (overflow prevention systems)										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
Total score																				0	30	
Minimum ranking score required for element 5800 = 15																						
5801 Protective location of fuel and lubrication oil tanks										0												
	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
Total score																				0	70	
Minimum ranking score required for element 5801 = 20																						
Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)					0					0		0										
	5810	Stern tube lubrication			0						0		0									
M/RR	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
N	5810.6	Alternative for 5810.1, 5810.3, 5810.4 and 5810.5 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
M	5810.3	Alternative for 5810.1 and 5810.6: Is the vessel fitted with a class approved stern tube lubrication system with an <u>air type</u> or <u>void space seal</u> ? *Lubricant is certified according to EAL/EEL or equivalent. *A procedure for proper handling of consumed oil is available!																			0	25
M	5810.4	Alternative for 5810.1 and 5810.6: Does the vessel use a stern tube lubricant that is certified according to the EAL/EEL or equivalent?																			0	15
M	5810.5	Alternative for 5810.1 and 5810.6: 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
Total score																				0	60	
Minimum ranking score required for element 5810 = 15																						
5811 Mooring wire lubrication										0		0										
	5811.1	Does the vessel use a mooring wire lubricant / grease that is certified according to the EEL?																			0	20
Total score																				0	20	
Minimum ranking score required for element 5811 = 0																						

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			Doc. & Impl.	Doc. & Impl.	Doc. & Impl.	Doc. & Impl.	Doc. & Impl.	Doc. & Impl.	Doc. & Impl.	Doc. & Impl.																	
5812	Deck equipment lubrication (use of oils)																										
5812.1	Does the vessel use grease that is certified according to the EEL (all deck equipment)?																						0	15			
5812.2	Does the vessel use gear oil that is certified according to the EEL (all deck equipment)?																						0	10			
5812.3	Does the vessel use hydraulic oil that is certified according to the EEL in mooring and anchor appliances?																						0	10			
5812.4	Does the vessel use hydraulic oil that is certified according to the EEL in crane appliances?																					0	10				
5812.6	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		
Total score																					0	55					
Minimum ranking score required for element 5812 = 0																											
5820	Management of bilge water and sludge handling onboard																										
5820.1	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	
5820.2	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
5820.3	Is an onboard familiarisation checklist for the engine room personnel including sludge and bilge water management available?																								0	5	
5820.4	Are all ER drip trays, drains, scuppers, gutters labeled, which corresponds to the specific tanks or drains, in order to ensure that these substances are collected in the right tanks?																									0	5
Total score																					0	20					
Minimum ranking score required for element 5820 = 15																											


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								0		0		0		0		0						
5822	Outfitting of sludge handling system																					
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	Alternative 1 to 5822.8 - 5822.10 and 5822.5 - 5822.6 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	Alternative 2 to 5822.8 - 5822.10 and 5822.4 and 5822.6 Is a sludge decanter installed with the purpose of consuming the sludge as a fuel.																				0	25
5822.6	Alternative 3 to 5822.8 - 5822.10 and 5822.4 - 5822.5 Is all the ship sludge always delivered to reception facilities?																				0	20
	Alternative 4 (5822.7) to 5822.1 - 5822.2 and 5822.8 - 5822.10 and 5822.4 - 5822.6 (all the above)																				0	25
5822.7	Is the sludge production limited due to not using HFO as a fuel?																				0	25
																					0	35
5900	Ship Recycling - Inventory of Hazardous Materials		0		0						0		0									
5900.10	Does the vessel have an "Inventory of Hazardous Materials" (Part I completed) or a "Green Passport"?																				0	110
5900.11	Alternative to 5900.10 and 5900.3: Is objective evidence available onboard that the "Inventory of Hazardous Materials" has been initiated beyond Step 1 of Part I?																				0	70
5900.3	Alternative to 5900.10 and 5900.11: 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
6000	MAINTENANCE / SURVEYS																					
6100	Programme of Inspections		0								0											
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
6110	Critical and Stand-by Equipment		0		0		0															
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


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6200	Mooring Equipment		0		0				0													
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 "workingdays" 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	Alternative for 6200.7: (for fibre ropes) Are there procedures for care of fibre ropes?																				0	10
Total score																					0	95
Minimum ranking score required for element 6200 = 65																						
6300	Corrosion Prevention of Seawater Ballast Tanks				0						0											
6300.1	Are ballast tanks of double-hulled vessel, coated with a hard coating of a light colour?																				0	20
6300.6	Alternative to 6300.1 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
Total score																					0	70
Minimum ranking score required for element 6300 = 40																						


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				6400	Condition Assessment Program, Maintenance Additional Green Award requirements	0		0						0								
M	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>15 years</u> of age, or by the <u>end of the 3rd special survey</u> , whichever is earlier.)																			0	25
M	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>15 years</u> of age, or by the end of the <u>3rd special survey</u> , whichever is earlier.)																			0	20
M	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>15 years</u> of age, or by the <u>end of the 3rd special survey</u> , whichever is earlier.)																			0	20
M	6400.2	(Alternative to 6400.1, 6400.8 and 6400.9 above) Is the ship less than 15 years of age or has not reached the end of the 3rd 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
		Total score																			0	120
			Minimum ranking score required for element 6400 = 60																			
	6500	Certificates for Cargo Gear	0		0						0											
	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
		Total score																			0	40
			Minimum ranking score required for element 6500 = 40																			
	7000	CREW																				
	7200	Extra personnel, Additional Green Award Requirement	0								0											
	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
M	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
		Total score																			0	70
			Minimum ranking score required for element 7200 = 20																			


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7300	Training / Courses for Personnel, 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 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 familiarization 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 1.35) ?																				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	Alternative for 7300.8 & 7300.19 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?																				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?																				0	20
7300.16	Has the master completed a fire fighting training that specifically addresses chemical fires ?																				0	15
7300.17	Have all the officers completed Security Awareness Training?																				0	5
			Total score																		0	140
			Minimum ranking score required for element 7300 = 60																			


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			7400	Familiarisation, Additional Green Award Requirement		0		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 of 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	
N	7400.10	In those cases when junior or senior officers are transferred to another class of ship that differ considerably from where their experience lie, is an onboard appropriate operational experience with previous off-signing officers implemented for a specific minimum period?																			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	
			Total score																	0	70		
			Minimum ranking score required for element 7400 = 50																				
	7500	Safe Manning and Fatigue Management	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	
			Total score																	0	60		
			Minimum ranking score required for element 7500 = 40																				









CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG CARRIER - VERSION 2018

Revision Code	Norm item	 <div style="border: 1px solid black; padding: 10px; text-align: center; margin-top: 10px;"> <h2 style="margin: 0;">RANKING</h2> <h3 style="margin: 0;">Ship - LPG</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		
			9411	INSPECTION, MEASURING AND TEST EQUIPMENT				0		0				0		0							
9411.1	Is an overview of certificates of these apparatus available?																				0	10	
																						0	10
			Total score																		0	10	
			Minimum ranking score required for element 9411 = 10																				
9412	INSPECTION AND TEST STATUS				0						0												
9412.1	Are working procedures available?																				0	20	
9412.2	Is a status quo report of for example, coating of tanks available?																				0	20	
																						0	40
			Total score																		0	40	
			Minimum ranking score required for element 9412 = 40																				
9413	CONTROL OF NON CONFORMING PRODUCT		Included in ISM: see BASIC criteria																				
9414	CORRECTIVE ACTION		Included in ISM: see BASIC criteria																				
9415	HANDLING, STORAGE, PACKAGING AND DELIVERY		0		0																		
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	
																						0	60
			Total score																		0	60	
			Minimum ranking score required for element 9415 = 60																				
9416	QUALITY RECORDS		Included in ISM: see BASIC criteria																				
9417	INTERNAL QUALITY AUDITS		Included in ISM: see BASIC criteria																				
9418	TRAINING		Included in ISM: see BASIC criteria																				
9419	SERVICING		Not Applicable																				
9420	STATISTICS		0		0						0												
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	
																						0	30
			Total score																		0	30	
			Minimum ranking score required for element 9420 = 20																				

CHECKLIST - RANKING CRITERIA - SURVEY - LPG CARRIER - VERSION 2018						
Norm item		TOTAL SCORE REVIEW SHIP SURVEY - LPG CARRIER	SHIP'S RANKING SCORE	MAXIMUM OBTAINABLE RANKING SCORE	MINIMUM RANKING SCORE REQUIRED	ELEMENTS WITH NO MINIMUM SCORE
1000	GENERAL					
1100	Data Monitoring and Recording Equipment		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 / Medical examination		0	40	30	
1500	Emergency Response System		0	80	60	
1600	Computer Systems, Networks, Data Security and Training. GA requirement		0	60	30	
1700	Noise and Vibration Management		0	50	15	
1710	Underwater Noise and Vibration Management		0	10	0	
2000	NAVIGATION / BRIDGE OPERATIONS					
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	
3000	MACHINERY / ENGINE OPERATIONS					
3100	Bunker Operations		0	50	50	
3200	Fuel Oil Testing, Bunker Alerts, Marpol Bunkering Requirements & Additional Green Award requirements		0	100	70	
4000	CARGOES / CARGO OPERATIONS					
4100	LPG Carrier Cargo Operations & Additional Green Award requirements		0	180	110	
4200	Ship to Ship Transfer Operations		0	30	30	
4400	Additional Green Award Requirements (tank alarms, coatings, etc.)		0	170	100	
4500	Hull Stress Monitoring System		0	20	0	
5000	PREVENTION OF POLLUTION					
5200	Waste Management / Garbage Handling Onboard		0	130	55	
5400	Air Emission Monitoring - For the purpose of Environmental Performance Monitoring		0	90	0	
5410	NOx Emissions		0	110	0	
5420	Sulphur Content of Fuel		0	140	5	
5421	Ships required to carry out Fuel Change Over to low sulphur Marine Diesel Oil or low sulphur Marine Gas Oil (low sulphur Distillates)		0	75	55	
5430	Particulate Matter (PM) Emissions		0	90	0	
5440	CO2 emissions / Energy Efficiency		0	60	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	

CHECKLIST - RANKING CRITERIA - SURVEY - LPG CARRIER - VERSION 2018						
Norm item		TOTAL SCORE REVIEW SHIP SURVEY - LPG CARRIER	SHIP'S RANKING SCORE	MAXIMUM OBTAINABLE RANKING SCORE	MINIMUM RANKING SCORE REQUIRED	ELEMENTS WITH NO MINIMUM SCORE
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	
5900		Ship Recycling - Inventory of Hazardous Materials	0	110	0	
6000		MAINTENANCE / SURVEYS				
6100		Programme of Inspections	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		Certificates for Cargo Gear	0	40	40	
7000		CREW				
7200		Extra personnel, Additional Green Award Requirement	0	70	20	
7300		Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses	0	140	60	
7400		Familiarisation, Additional Green Award Requirement	0	70	50	
7500		Safe Manning and Fatigue Management	0	60	40	
9000		REQUIREMENTS ACCORDING TO NEN-EN ISO 9001:2000				
9406		PURCHASING	0	40	40	
9407		PURCHASER SUPPLIED PRODUCT	0	40	40	
9408		PRODUCT IDENTIFICATION AND TRACEABILITY	0	40	40	
9411		INSPECTION, MEASURING AND TEST EQUIPMENT	0	10	10	
9412		INSPECTION AND TEST STATUS	0	40	40	
9415		HANDLING, STORAGE, PACKAGING AND DELIVERY	0	60	60	
9420		STATISTICS	0	30	20	
		TOTAL SCORES	0	3625	1680	

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.
	Indicates that an alternative is used, hence the score for that item is a "0".
	The checklist was filled in incorrectly, thus shows "error".
	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 under "Certification/ Download".

APPENDIX 5


CHECKLIST - VISUAL INSPECTION - SURVEY - LPG CARRIER

(PMC-10)


Green Award Visual Inspection - LPG Carrier

Green Award Visual Inspection - LPG Carrier				
Check Box	Norm item		Inspection Focus	Remarks
	8100 Machinery			
	8101 Reports			
	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	
	8101.5	Other reports	Vetting reports by chartering companies and independent surveyors	
	8102 Engine Room			
	8102.1	Overall tidyness 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	Save-alls	Oil, liquid and dirt free	
	8102.7	Workshop	Safety instructions near machinery (Grindstone, Lathe etc)	
	8103 Main Propulsion			
	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	
	8104 Auxiliary Engines			
	8104.1	General performance		
	8104.2	Leakage, condition of fuel oil, lub. oil lines	Cracks, corrosion and / or pipes connections not tight	
	8104.3		Oil-, water-, corrosion- and dirt-free	
	8104.4	Emergency Generator	Condition and date last tested	
	8105 Boilers			
	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 / Save-all	Oil-, water-, corrosion- and dirt-free	


Green Award Visual Inspection - LPG Carrier

Check Box	Norm item		Inspection Focus	Remarks
	8100 Machinery			
	8106 Bilge System			
	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	
	8107 Piping Systems			
	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	
	8108 General Service Air Systems			
	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	
	8109 Chemicals			
	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	
	8110 Electrical			
	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.	
	8111 Inert Gas Plant			
	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.	
	8112 Sewage Plant			
	8112.1	Sewage Plant fully operational	Alarms, level switches etc.	
	8112.2	Position of valves correct	Check if the by-pass valves are closed	
	8113 Fire Pumps			
	8113.1	Position of firepump valves	Are instructions available for position of valves	
	8113.2	General check of emergency firepump	Position of Fuel valve, Content of fuel tank etc.	
	8114.3	Operating instructions of firepump and drive-unit	Clear instruction board available	
	8114 Emergency Electrical Stops			
	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	

Green Award Visual Inspection - LPG Carrier

Green Award Visual Inspection - LPG Carrier				
Check Box	Norm item		Inspection Focus	Remarks
	8100 Machinery			
	8115 Quick Closing Valves			
	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	
	8116 Gauge Glasses Class			
	8116.1	Condition of gauge glasses closing valves	Check proper working and if they are normal closed	
	8116.2	Condition gauge glasses lub. oil tanks	Check proper working and if they are normal closed	
	8116.3	Condition gauge glasses chemical tanks	Check proper working and if they are normal closed	
	8116.4	Condition gauge glasses fuel tanks	Check proper working and if they are normal closed	
	8117 Ventilation			
	8117.1	Fire flaps in trunks engine room	Check markers open/close and proper working	
	8117.2	Fire flaps	Check proper working	
	8118 Exhaust gases of machinery			
	8118.1	Emission of main engines	Content NOX en SOX	
	8200 Steering Gear			
	8201 SOLAS requirements			
	8201.1	Steering gear unit complies with SOLAS		
	8201.2	Steering gear room complies with SOLAS		
	8202.3	Steering gear unit - and room cleanliness	Check for hydraulic leaks, presence of water and / or oil in drip-trays	
	8203 Change over procedures			
	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	
	8204 Testing			
	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.	
	8205 Charging emergency header tank			
	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		
	8206 Compass			
	8206.1	Compass present in steering gear room		
	8206.2	Compass clearly visible from control-station		
	8207 Bridge Communications			
	8207.1	Satisfactory communications with bridge		
	8207.2	Telephone available and working		
	8207.3	Sound powered telephone available and working		


Green Award Visual Inspection - LPG Carrier

Check Box	Norm item		Inspection Focus	Remarks
	8200	Steering Gear		
	8207	Visibility of Rudder Angle Indicator		
	8207.1	Rudder angle indicator present		
	8207.2	Rudder angle indicator visible at steering position		
	8208	Access to Steering Gear		
	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	
	8300	Cargo / Ballast System		
	8301	Drawings / Diagrams in Cargo Control Room		
	8301.1	All relevant drawings and diagrams available	Pipe Line diagrams, mimic diagrams etc should be available in CCR	
	8301.2	Drawings visible inside CCR	Drawings clearly visible and understandable for operation	
	8302	Functioning of Cargo / Ballast Pumps		
	8302.1	Is every separate pump working		
	8302.2	Cargo pumps with temperature sensors readout CCR		
	8302.3	Stripping pumps with temperature sensors readout CCR		
	8302.4	Ballast pumps with temperature sensors readout CCR		
	8302.5	Cargo pumps fitted with temperature trips		
	8302.6	Cargo pumps with sensors for vibration monitoring bearings		
	8302.7	Is all equipment combined working	Malfunctioning often indicator	
	8303	Functioning Pump Controls/Turbine Controls		
	8303.1	Pump controls functioning	Speed sensor, suction meter, pressure meter, vibration meter	
	8303.2	Pump alarms functioning	Temp. of bearings and casing	
	8303.3	Turbine trips functioning	Overspeed, backpressure, lub.oil pressure and bearing temp.	
	8303.4	Regular tests conducted		
	8303.5	Tests recorded		
	8304	Gauges and Tachometers		
	8304.1	Cargo / Ballast pump gauges operational		
	8304.2	Cargo / Ballast pump tachometers operational		
	8305	Engine / Pump Room Seals		
	8305.1	Condition seals Cargo/Ballast pumps pumproom/ E.R.	Check deck penetration, oil level in deck seals	
	8305.2	Condition seals Cargo/Ballast pumps / pump room	Check for leakage	
	8306	Cargo Control Room Communications		
	8306.1	Communication satisfactory	Communication between Cargo Control Room / Pump Room / Cargo Pump Turbines (E.R. side)	
	8306.2	Communication operational		


Green Award Visual Inspection - LPG Carrier

Green Award Visual Inspection - LPG Carrier				
Check Box	Norm item		Inspection Focus	Remarks
	8300	Cargo / Ballast System		
	8307	Meters / Displays Inside Pump Room Class		
	8307.1	Suction and discharge pressure meters	Check for good working	
	8307.2	Continuous monitoring of hydrocarbon gases	Check test dates	
	8307.3	Thermometers of bearings / pump casing	Check for good working	
	8307.4	Bilge alarms	Check for high level and high-high level	
	8308	Electrical Equipment		
	8308.1	Equipment installed explosion-proof	Light, control equipment, switches etc.	
	8308.2	Ventilation and lighting interlocked	Ventilation starts when lights switched on, failure of ventilation separate of light-functioning	
	8308.3	Condition of electrical safety barriers		
	8309	Oil Discharge Monitoring Equipment		
	8309.1	Oil discharge monitor	Check operational condition / calibration	
	8309.2	Recorder	Check recent history output	
	8310	Vapour system		
	8310.2	Vapour lines and manifolds		
	8400	Structural		
	8401	Drawings		
	8401.1	Review of all relevant structural drawings	Overview structural design and scantlings	
	8402	Reports		
	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	
	8402.5	Other reports	Vetting reports by chartering companies and independent surveyors	
	8403	External Hull		
	8403.1	Shell plating	Check for indents, cracks, corrosion, pitting, paint-condition, local rust and / or cargo stripes	
	8404	Cargo Tanks		
	8404.1	Structural integrity	Deformations, cracks, leakages of bulkheads, stringers, webs, girders	
	8404.2	Corrosion condition	Corrosion and / or corrosion pattern of structural design	
	8404.4	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	
	8405	Ballast Tanks		
	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	

Green Award Visual Inspection - LPG Carrier

Check Box	Norm item		Inspection Focus	Remarks
	8400	Structural		
	8406	Void spaces / Cofferdams		
	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	
	8404.5	Miscellaneous equipment	Condition emergency pumps / controls, access facilities	
	8407	Main Deck & Fittings		
	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, void spaces P/V valves, pressure relief valves, 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	

Green Award Visual Inspection - LPG Carrier

Check Box	Norm item		Inspection Focus	Remarks
	8400	Structural		
	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	
	8410	Accommodation & Machinery Spaces		
	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		
	8411	Mooring equipment		
	8411.1	Mooring lines	Condition mooring lines	
	8411.2	Winches	Foundation bolts firm, casing crack-, corrosion-free, no leakages and save-all	
	8411.3	Condition winch-brakes	Check last test report and thickness linings	
	8412	Anchoring equipment		
	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	
	8413	Emergency towing system		
	8413.1	Condition emergency towing equipment aft ship.	Check wires etc.	
	8413.2	Condition emergency towing equipment fore ship		

Green Award Visual Inspection - LPG Carrier

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Check Box	Norm item		Inspection Focus	Remarks
	8500	Safety / Rescue		
	8501	Safety equipment		
	8501.1	Certificates	Check certificates, reports and safety drills	
	8501.2	Safety plan	Check available and clearly visible	
	8502	Rescue equipment		
	8502.1	Life boat + davits	Check condition (incl. Kathodic wear) and working order	
	8502.2	Rescue boat + davits	Check condition (incl. Kathodic wear) and working order	
	8502.3	Life rafts + release system	Check condition (incl. Kathodic 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. Kathodic wear) and working order	
	8503	Fire fighting		
	8503.1	CO2 / Dry powder 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	
	8504	Escape routes		
	8504.1	Free access	Check free access without obstructions	
	8504.2	Indicators	Check clear markers / positioning	
	8504.3	Emergency lighting	Check clear markers / positioning	
	8505	Marine Spill Response Equipment		
	8505.1	Marine Pollution Emergency Plan	Check availability	
	8505.2	Emergency equipment	Check content and working order	