

Green Award Foundation

Westerkade 7B | 3016 CL ROTTERDAM | The Netherlands | www.greenaward.org

Annex 3h: Green Award Requirements (Ro-Ro Cargo Ship) Version 2022

Checklists for Office Audits and Ship Surveys

Effective as of 1 May 2022



Annex 3h: Green Award Requirements (Ro-Ro Cargo Ship)



Ro-Ro Cargo Ships

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Legend for Checklists

○	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 - RO-RO CARGO SHIP

(RMC-06)

CHECKLIST - BASIC CRITERIA - OFFICE AUDIT - RO-RO CARGO SHIP - VERSION 2022																							
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;">Office - Ro-Ro</h2> </div>	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	IT DEPT.	Doc. & Impl.	INS- /CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE
			100	MANAGEMENT ELEMENTS (continued)																			
106	RESOURCES AND PERSONNEL AND STCW			o							o												
106.1	Does the company have a procedure to verify the integrity of the sea staff certification and medical fitness before being assigned to the ship?																						
106.2	Have the owners/managers established documented policies concerning shore/ship personnel?																						
106.3	Has the level of competency been defined and documented for office personnel performing functions pertinent to safety and the environment?																						
106.4	Do arrangements include a provision for masters and officers to receive an adequate introduction and continuous update of the company's safety and environmental system?																						
106.5	Do arrangements include training and an introduction to the quality system for the executive management ?																						
106.6	Do office personnel receive training/courses with regard to the ISM Code and are they consistent with the MS manuals?																						
106.7	Are records of this training/courses available?																						
106.8	Are internal audits held on board the ships?																						
106.9	Is standard composition of crew documented in company policy?																						
106.10	Is personnel promotion policy (ship & office) documented in company procedures?																						
106.11	Is the working language between the office and the vessels defined?																						
106.12	Are all senior and deck officers conversant with the English language for maritime communication?																						
106.13	Are operational instructions on board written in a language understood by officers and shipboard personnel?																						
106.14	Is the working language monitored and checked by the ship's staff and verified during internal audits?																						
106.17	Is the Master of a vessel fully conversant with the Company's Management Systems?																						
107	DEVELOPMENT OF PLANS FOR SHIPBOARD OPERATIONS			o		o		o		o		o		o							o		
107.1	Does the company have procedures for the preparation of plans and instructions for key shipboard operations concerning safety of the ship and prevention of pollution?																						
107.3	Are tasks, qualifications and responsibilities defined in the manuals and in the job descriptions?																						
108	EMERGENCY PREPAREDNESS		o		o		o		o		o		o		o						o		o
108.1	Does the system cover the arrangements needed to ensure that the company, day and night, is prepared to respond effectively to hazards, accidents or emergencies involving their ships?																						
108.2	Are tasks, qualifications and responsibilities described in the manuals and in the job descriptions?																						
108.3	Is communication with media included in the emergency procedures?																						
108.4	Are procedures for an "Emergency room" in the office defined?																						

CHECKLIST - BASIC CRITERIA - OFFICE AUDIT - RO-RO CARGO SHIP - VERSION 2022																
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			GENERAL MAN. Doc. & Impl.	QUALITY DEPT. Doc. & Impl.	TECHNICAL DEPT. Doc. & Impl.	NAUTICAL DEPT. Doc. & Impl.	PERSONNEL DEPT. Doc. & Impl.	OPER./CHART DEPT. Doc. & Impl.	PURCHASING DEPT. Doc. & Impl.	FINANCIAL DEPT. Doc. & Impl.	IT DEPT. Doc. & Impl.	INS- /CLAIM DEPT. Doc. & Impl.	NOT APPLICABLE			
100	MANAGEMENT ELEMENTS (continued)															
109	REPORTS AND ANALYSES OF NON-CONFORMITIES, ACCIDENTS AND HAZARDOUS OCCURENCES															
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															
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															
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															
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 -
RO-RO CARGO SHIP

(RMC-07)

CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - RO-RO CARGO SHIP - VERSION 2022																										
Revision Code	Norm Item	 <div style="border: 1px solid black; padding: 5px; text-align: center;"> <h2 style="margin: 0;">RANKING</h2> <h3 style="margin: 0;">Office - Ro-Ro</h3> </div>	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PER SONNEL 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	
			1400	Control of drugs & alcohol onboard										0												
1400.2	Are all seafarers subject to an unannounced alcohol testing on board as initiated by the office? (Approved test equipment to be available on board)																							0	10	
1400.1	Are all seafarers subject to shore-based drug and alcohol testing at least once in last 12 months?																							0	15	
1400.5	Are all fleet vessels subject to unannounced drug and alcohol testing at least once every year (not exceeding 18 months between two consecutive tests) by an external organisation?																							0	10	
1400.6	Alternative to 1400.1 & 1400.5: In case crew members are not subject to shore-based drug and alcohol testing at least once in last 12 months, are all fleet vessels subject to unannounced drug and alcohol testing at least twice in 12 months by an external organisation?																							0	25	
1400.7	Does the company contract an external drug and alcohol test organization to monitor fleet vessels for next due vessel tests such that the organization can appropriately decide themselves location and date of attendance?																							0	10	
Total score																							0	45		
Minimum ranking score required for element 1400 = 20																										
1500	Emergency Response System										0		0													
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	45		
Minimum ranking score required for element 1500 = 25																										
1510	Emergency Oil Recovery																									
1510.1	Does the company equip its vessels (GA-certified) with a system providing emergency access to cargo tanks and bunker tanks (for example, from the vessel deck), should the vessel be submerged?																							0	5	
1510.2	Does the company ensure that its ships (GA-certified) carry an oil skimmer or a similar device that can be used in an emergency situation of oil spill overboard?																							0	5	
Total score																							0	10		
Minimum ranking score required for element 1510 = 0																										

CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - RO-RO CARGO SHIP - VERSION 2022																											
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			1600	Computer Systems, Networks, Data Security and Training. GA requirement				0														0					
1600.1	Are arrangements for shore and vessel systems documented ? (configuration scheme)																								0	10	
1600.2	Are adequate system back-up's for office administrative PC systems made (where applicable) and are procedures for this documented ?																								0	5	
1600.7	Is there a policy that system back-ups for vessel computer-based systems are made (where applicable)?																								0	5	
1600.8	Is there a policy that system back-ups for vessel administrative PC systems are made?																								0	5	
1600.3	Is training provided at a level required to effectively operate and maintain the system and cover normal, abnormal and emergency conditions?																								0	10	
1600.4	Is the internal audit scheme applicable to the IT department?																								0	10	
1600.5	Are computer systems, in relation to IMO MSC/Circ.891, certified by a recognised organisation?																								0	10	
1600.6	Is a system administrator designated for administrative PC systems in the office ?																								0	10	
Total score																							0	65			
Minimum ranking score required for element 1600 = 40																											
1610	Cyber Risk Management																										
1610.1	Does the company have plans and procedures of cyber risk management (cyber risk policy) incorporated within its Safety Management System (SMS)?																								0	20	
1610.3	Does the cyber risk policy differentiate between IT (information technology) and OT (operational technology) systems?																								0	10	
1610.4	Does the cyber risk policy focus on elements such as third-party access and bring your own device (BYOD) in the office?																								0	5	
1610.5	Does the company designate and train personnel as appropriate to identify and respond to cyber threats to the company's information technology systems?																								0	5	
1610.6	Does the company have a policy in place to build new ships equipped with cyber secure systems and components?																								0	5	
1610.7	Does the company have a set of clear and unambiguous cyber risk requirements that reflect the company's expectations to vendors and agents?																								0	5	
1610.8	Does the company have a policy to carry out cyber risk assessments on its ships (at an interval deemed suitable by the company) using either of the following: - self-assessments followed by third party risk assessments - penetration tests of critical IT and OT infrastructure performed by external experts simulating cyber attacks?																								0	5	
1610.9	Does the company provide its ships with contingency plans and related information in a non-electronic form that need to be followed in the event of a cyber attack?																								0	5	
1610.10	Is it a company policy to involve IT department while preparing to purchase OT systems for ships?																								0	5	
1610.11	Does the company use the information from investigations of previous identified cyber incidents to improve the technical and procedural protection measures and response plans on board and ashore?																								0	5	
1610.12	Does the company forbid remote access by technicians and manufacturers to on-board systems without authorization by the vessel's senior leadership team (For example, by following a two-step digital authorization process)?																								0	5	
Total score																							0	75			
Minimum ranking score required for element 1610 = 35																											

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			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	
																								0	65	
			Total score																				0	65		
			Minimum ranking score required for element 1700 = 25																							
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; 5. Installation of propeller boss cap with fins; 6. Others = *fill during audit*?																							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	
																								0	30	
			Total score																				0	30		
			Minimum ranking score required for element 1710 = 0																							

CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - RO-RO CARGO SHIP - VERSION 2022																										
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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
2120	Fuel Change Over / Ballast Water Exchange			0					0				0													
2120.1	Is it company policy that the voyage plan (checklist) include when fuel change over <u>should</u> be carried out?																								0	10
2120.2	Is it company policy that the voyage plan (checklist) include when ballast water exchange <u>can</u> be carried out?																								0	10
																									0	20
2300	Mooring Operations								0																	
2300.1	Does the company have procedures/instructions for mooring/unmooring operations?																								0	10
																									0	10

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					3000	MACHINERY / ENGINE OPERATIONS																						
3100	Bunker Operations																											
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																												
3101	Bunker Operations - LNG																											
3101.1	Does the company SMS specify that only a relevant IAPH LNG bunkering checklist must be used?																										0	10
3101.2	Is it company policy to ensure that LNG-fuelled ships are equipped with LNG specific PPEs such as protective cryogenic gloves and safety goggles with side protection?																										0	10
3101.3	Does the company install CCTV on LNG bunker stations for the purpose of observing the bunkering operation from the bridge or operation control room?																										0	10
3101.4	Is it company policy that ships are mandated to provide a dedicated watch (from a safe location) on bunker station during the entire duration of the LNG bunkering?																										0	5
3101.5	Does the company provide thermal imaging camera/equipment for leakage detection during bunkering on board its LNG-fuelled ships (GA-certified only)?																										0	5
3101.6	Does the company provide its shipboard personnel a shore-based training on LNG bunkering?																										0	10
Total score																								0	50			
Minimum ranking score required for element 3101 = 25																												

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4000	CARGOES / CARGO OPERATIONS																	
4600	Cargo Operations		0		0	0				0							0	
4600.2	Is company aware of cargo specifications which are required by the charterer of the ship?																0	10
4600.5	Does the charter party specify that the cargo to be loaded must be under the supervision and direction of the master?																0	20
			Total score													0	30	
			Minimum ranking score required for element 4600 = 10															
4602	Cargo handling and operations		0		0	0				0						0		
4602.1	Is it company procedure that the ship shore safety checklist for loading or unloading has to be used before loading/unloading operations?																0	10
4602.2	Does the company give procedures/instructions in relation to the entire cargo operations?																0	10
			Total score													0	20	
			Minimum ranking score required for element 4602 = 20															
4606	Safety precautions during cargo operations		0		0	0				0						0		
4606.1	Does the company have instructions / procedures to control the access of unauthorized persons on board?																0	10
4606.2	Are there procedures to ensure that a sufficient number of personnel will be available in case of an emergency during port stay?																0	10
			Total score													0	20	
			Minimum ranking score required for element 4606 = 20															

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			4900	Cargo Operations - Ro-Ro Cargo Ship																						
	Preparation																									
4900.2	Does the company ensure that procedures are in place for safe stowage and securing of specialised vehicles and cargo on board all GA-certified ships. (For example - tank vehicles, tank containers, track laying vehicles including bulldozers and cranes, low-loader trailers, flat-bed trailers, high-freight vehicles, refrigerated freight vehicles and freight vehicles carrying livestock)																							0	20	
	Ventilation of Cargo Spaces																									
4900.3	Does the company ensure that the inspection and maintenance criteria for the ventilation systems of the cargo spaces is included in the planned maintenance system (PMS) of all GA-certified ships.																							0	10	
	Cargo Securing Manual																									
4900.4	Does the company ensure that the approved (by the Administration) cargo securing manual is up-to-date and readily available to shipboard personnel involved in cargo operations (on board all GA-certified vessels)?																							0	20	
4900.5	Does the company ensure that cargo securing manuals of GA-certified ships mandate shipboard personnel to inspect and correct (re-tension) cargo lashings at least every day during the first three days and then every third day?																							0	5	
4900.6	Does the company ensure that cargo securing manuals of GA-certified ships mandate shipboard personnel to establish daily checks on cargo lashings, if heavy weather is expected?																							0	5	
	During Loading/Unloading																									
4900.10	Does the company recommend an adequate distance to be maintained between vehicles (in accordance with the ECG Quality Manual or any other internationally recognized standard or as recommended by the customers)?																							0	10	
4900.11	Does the company ensure that the shipboard personnel on GA-certified ships maintain the angle between the lashings and the horizontal and vertical planes between 30° and 60°?																							0	10	
4900.12	Is it a company policy to ensure that the movement, stowage and securing of vehicles on vehicle decks and ramps of all GA-certified ships is supervised by the duty officer assisted by at least one other relevant (familiar with cargo operations) shipboard personnel?																							0	20	
			Total score																				0	100		
			Minimum ranking score required for element 4900 = 70																							

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				5000	PREVENTION OF POLLUTION																					
	5100	Biofouling Management																								
N	5100.5	Does the company have ship-specific procedures/instructions (according to IMO guidelines) for the control and management of ships' biofouling to minimize the transfer of invasive aquatic species?																							0	10
N	5100.6	Does the company define frequency and timing of in-water inspection and proactive hull cleaning in consultation with coatings manufacturer and/or coatings consultant for each ship under its management?																							0	5
N	5100.7	Is it a company policy to define potential trigger points for reactive hull cleaning – based on performance monitoring or other relevant datasets (such as increased drag or increased friction)?																							0	5
N	5100.8	Is it a company policy to use in-water cleaning only in combination with capture and filtration of the cleaned material and subsequent waste treatment and disposal, when made available in ports?																							0	10
																									0	30
			Total score																				0	30		
			Minimum ranking score required for element 5100 = 5																							
	5200	Waste Management / Garbage Handling Onboard			0	0	0																			
		A. General procedures																								
	5200.17	Does the company have a policy to reduce garbage at source? For example, bulk packaging of consumable items.																							0	5
	5200.22	Is it a company policy that recyclable material such as paper, plastic, metal (for example, tin cans) and dunnage are always delivered to the port reception facilities?																							0	5
		B. Garbage types																								
		B.3 Ashes and clinkers																								
	5200.25	Is it a company policy that all incinerated ashes and clinkers are always delivered to the port reception facilities?																							0	10
		B.4 Cleaning agents & additives																								
	5200.28	Is it a company policy to use <u>non harmful</u> (MARPOL Annex V compliant) cleaning agents and additives for cleaning the deck / external surfaces?																							0	10
		B.5 Plastics																								
	5200.20	Is it a company policy that plastic is never incinerated?																							0	10
	5200.38	Does the company have a policy to reduce the use of disposable and single-use plastics on board (at least focusing on plastic cutlery, dishes & straws and beverages & mineral water bottles in bonded stores)?																							0	10
	5200.41	Does the company have a policy to avoid procuring food items in single servings of plastics pots (for example, replacing small yoghurt pots with decanted supplies in large containers)?																							0	5
	5200.42	Does the company combat micro-plastics in the laundry system by adding a fine filtering mesh to ship's washing machine's outlets to prevent fibres reaching the ocean?																							0	5
	5200.43	Does the company forbid its ships to dump old plastic ropes and mooring lines at sea and encourage to retain them on board until landed ashore for correct disposal?																							0	5
		C. Additional questions																								
	5200.16	Does the company provide training / education programme for the crew in order to create awareness in relation to garbage management?																							0	5
	5200.18	Does the company participate in national / international Marine Litter Monitoring Programs?																							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
																									0	80
			Total score																				0	80		
			Minimum ranking score required for element 5200 = 30																							

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				5410	NOx Emissions			0		0																
		A. Emission Monitoring																								
	5410.10	Does the company use a continuous emission monitoring system (in-situ or extractive) for monitoring and recording NOx emissions?																						0	10	
		B. Emission Reduction																								
	5410.20	Does the company use any one of the following measures on board one or more of its vessels to reduce NOx emissions from main and/or auxiliary engines?																						0	30	
		Measures taken to reduce NOx emissions	If YES, choose from below options																							
		Direct Water Injection																								
		Fuel Water Emulsification																								
		Intake Air Humidification																								
		Slow Steaming																								
	5410.21	Is it company policy to implement regulated slow steaming on some or all of the vessels within their fleet in an effort to reduce NOx emissions?																						0	10	
		C. Additional Questions																								
		Exhaust Gas Recirculation (EGR)																								
	5410.22	Are negative results from the continuous monitoring of exhaust gas recirculation bleed-off discharge water collected from the ship and addressed by the company? <i>*The guidelines set out in MEPC.259 (68) are applicable to EGR bleed-off discharge water as well.</i>																						0	10	
	5410.24	Does the company's PPE matrix include handling of caustic soda for exhaust gas recirculation?																						0	5	
	5410.25	Does the company provide the relevant crew with manufacturer training for the EGR unit? <i>*The manufacturer training should cover the normal operation of the EGR system including bunkering of any chemicals (consumables), calibration of sensors, routine maintenance as well as the procedures to be followed in case of system failure and deviation from normal operation.</i>																						0	5	
		Selective Catalytic Reduction (SCR)																								
	5410.26	Does the company install a monitoring unit which monitors and measures any formation of ammonia slip? <i>*The monitoring unit should be capable of issuing a warning in the event of ammonia formation.</i>																						0	10	
	5410.27	Does the company take adequate measures to avoid the breakdown of the SCR unit? Measures should include (all of) the following: 1. Requisition's of materials 2. Redundancy 3. Effects of back pressure 4. Maintenance regimes of the SCR 5. Monitoring the condition of the catalyst.																						0	10	
	5410.28	Does the company provide the relevant crew with manufacturer training for the SCR unit? <i>*The manufacturer training should cover the normal operation of the SCR unit including bunkering of any chemicals (consumables), calibration of sensors, routine maintenance as well as the procedures to be followed in case of system failure and deviation from normal operation.</i>																						0	5	
		Total score																						0	95	
			Minimum ranking score required for element 5410 = 35																							

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			5430	Particulate Matter (PM) Emissions						0																
5430.10	Does the company use any one of the following measures on board one or more of its vessels to reduce PM emissions from main and/or auxiliary engines?																							0	30	
	Measures taken to reduce PM emissions	If YES, choose from below options																								
	Diesel Particulate Filter																									
	Diesel Oxidation Catalyst																									
	Electrostatic Precipitator																									
		Total score																						0	30	
		Minimum ranking score required for element 5430 = 0																								
5440	Greenhouse Gas (GHG) Emissions - CO2 Emissions																									
	A. Emission Monitoring																									
5440.10	Does the company use flow meters for monitoring and recording of fuel consumption? (Flow meter is to be calibrated and certified by for example a classification society)																							0	10	
5440.6	Is an energy efficiency baseline measured for each ship? *Using a calculation of fuel consumption (Unit = Fuel consumption per transport work expressed in grams per tonne-nautical mile or other relevant unit as applicable to relevant ship category) (or) *Using measurement of CO2 emissions from emission monitoring equipment (grams CO2 per tonne nautical mile or other relevant units as applicable to relevant ship category) (Baseline is a measurement of the ships average (operational) energy efficiency under normal operating conditions before energy efficient measures or policies are implemented).																							0	5	
5440.14	Does the company use a ship performance monitoring software to monitor and reduce energy consumption by operational measures for their entire fleet?																							0	20	
	B. Emission Reduction																									
	Short term goals (CO2 reduction through energy efficiency measures)																									
5440.15	(Design and operational based measures) Energy efficiency measures implemented on-board company vessels?																							0	20	
	For ease of use, measures are grouped according to the GLOMEEP Energy efficiency technologies information portal.	If YES, choose from below options and fill-in supplement CO2 - GloMEEP tab																								
	Measures related to Machinery																									
	Measures related to Propulsion and Hull Improvements																									
	Measures related to Energy Consumers																									
	Measures related to Energy Recovery																									
	Measures related to Technical Solutions for optimizing the operations																									
5440.16	Has the company achieved an annual average reduction of at least 2.0% in CO2 emissions per transport work (gCO2/tnm) since 1st Jan 2013?																							0	30	
5440.17	Alternative to 5440.16: Has the company achieved an annual average reduction of at least 1.0% in CO2 emissions per transport work (gCO2/tnm) since 1st Jan 2013?																							0	15	

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		Mid term goals (CO₂ reduction through the use of low carbon fuels)																								
	5440.18	Main engines: Does the company have any vessels within their fleet which use low carbon fuels such as:																							0	15
		Low carbon fuels	If YES, choose from below options																							
		LNG (Liquefied Natural Gas)																								
		LPG (Liquefied Petroleum Gas)																								
		GTL (Gas to liquid) fuel																								
		Bio-diesel																								
		Bio-LNG (Bio-methane)																								
		Methanol																								
		Ethanol																								
		Dimethyl Ether																								
		Other: *fill during audit*																								
		If others =																								
	5440.19	Auxiliary engines: Does the company have any vessels within their fleet which use low carbon fuels such as:																							0	15
		Low carbon fuels	If YES, choose from below options																							
		LNG (Liquefied Natural Gas)																								
		LPG (Liquefied Petroleum Gas)																								
		GTL (Gas to liquid) fuel																								
		Bio-diesel																								
		Bio-LNG (Bio-methane)																								
		Methanol																								
		Ethanol																								
		Dimethyl Ether																								
		Other: *fill during audit*																								
		If others =																								

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					Long term goals (CO₂ neutral operation through zero carbon fuels)																					
	5440.20	Main engines: Does the company have any vessels within their fleet which use zero carbon fuels such as:																							0	25
		Zero carbon fuels	If YES, choose from below options																							
		Anhydrous Ammonia																								
		Hydrogen																								
		Fuel Cells (Powered by ammonia or hydrogen)																								
		Batteries																								
		Nuclear																								
		Other: *fill during audit*																								
		If others =																								
	5440.21	Auxiliary engines: Does the company have any vessels within their fleet which use zero carbon fuels such as:																							0	25
		Zero carbon fuels	If YES, choose from below options																							
		Anhydrous Ammonia																								
		Hydrogen																								
		Fuel Cells (Powered by ammonia or hydrogen)																								
		Batteries																								
		Nuclear																								
		Other: *fill during audit*																								
		If others =																								
	5440.22	Does the company have any vessels within their fleet which use renewable energy sources for energy production such as:																							0	25
		Renewable Energy source	If YES, choose from below options																							
		Wind *fill during audit*																								
		Solar																								
		Other: *fill during audit*																								
		Wind =																								
		If others =																								
N	5440.24	Does the company take steps to facilitate JIT Arrival of ships (for example, use of BIMCO's Virtual Arrival Clause for Voyage Charter Parties or speed decisions taken by the Master of owned ships to ensure JIT Arrival or implement measures from Port Information Manual by International Taskforce Port Call Optimization or other such measures)?																							0	10
		Total score																							0	200
			Minimum ranking score required for element 5440 = 0																							

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				5441	Greenhouse Gas (GHG) Emissions - Methane (CH₄) Emissions - Main Propulsion																					
		B. Emission Reduction																								
		Gas Turbine or High Pressure Dual Fuel engine																								
	5441.2	Does the company ensure that at least one of its LNG-powered ships operate on low (or no) Methane Slip technology, for example, Gas Turbine or High Pressure Dual Fuel (HPDF) Engine?																						0	20	
		Other Engine Types																								
	5441.3	Does the company take measures and is able to achieve annual reduction in Methane Slip from LNG-fuelled engines fitted on board its fleet of ships?																						0	10	
		A. Emission Monitoring																								
	5441.1	Does the company use a continuous emission monitoring system (in-situ or extractive) for monitoring and recording Methane Slip?																						0	10	
		C. Additional questions																								
	5441.4	Does the company provide awareness training to shipboard personnel on methane emissions from LNG-fuelled engines?																						0	5	
	5441.5	Does the company collaborate with engine manufacturers on research & development projects aiming to improve methane emissions from LNG-fuelled engines?																						0	10	
		Total score																						0	55	
			Minimum ranking score required for element 5441 = 0																							
	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																						
	Sewage Treatment Plant																									
	5500.1 Is it company policy to treat the sewage with a sewage treatment plant which uses minimal or no harmful chemicals?																							0	10	
	5500.2 Is it company policy to sample and monitor the discharged effluent periodically (at least annually) for lab testing ashore 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	10	
	5500.4 Does the company have a procedure to monitor and address any non-compliance in the effluent standards?																							0	10	
	For all ships: Sewage Holding Tank																									
	5500.6 Did the company perform a risk assessment to calculate the capacity of the holding tank?																							0	20	
																								0	50	
			Total score																				0	50		
			Minimum ranking score required for element 5500 = 20																							
	5510 Grey Water Management																									
	5510.1 Is it company policy to install a sewage treatment plant capable of treating grey water?																							0	15	
	5510.2 Is it company policy to not discharge grey water within coastal and port areas?																							0	10	
																								0	25	
			Total score																				0	25		
			Minimum ranking score required for element 5510 = 0																							
	5700 Ballast Water Management																									
	For ships required to follow D-1 standard (as per International Ballast Water Management Certificate (IBWMC))																									
RR	5700.5 Are tasks & responsibilities of shipboard personnel assigned to ballast water exchange operations defined, documented & controlled ?																							0	5	
RR	5700.6 Does the office support the master in cases where the ship cannot reasonably be expected to carry out ballast water exchange?																							0	5	
N	5700.10 Does the company ensure that relevant ships voluntarily comply with D-2 ballast water management standard using a type-approved ballast water treatment system (BWTS)?																							0	10	
	For ships required to follow D-2 standard (as per International Ballast Water Management Certificate (IBWMC))																									
N	5700.11 Does the company develop ship-specific contingency plans taking into account system design limitations, for example, - the UV-based BWTS cannot operate correctly in ports where the water is very muddy, - when operating in low salinity ports, the crew should plan to carry enough salt water or brine in order for the electrochlorination BWTS to function effectively.																							0	10	
N	5700.12 Does the company ensure the following in order to keep the BWT systems on board in operable condition: - maintain full inventory of manufacturer recommended spare parts list on board - define & maintain safe-margin stock of consumables on board (such as chemicals with short shelf-life, UV lamps, etc. as required by the installed system)																							0	5	
N	5700.14 Does the company train relevant crew to operate ship-specific BWT systems, for example, by means of computer-based training, training at the makers facilities or on a simulation BWMS that mimics real BWTS operations?																							0	10	
N	5700.15 Does the company conduct on-board familiarization of relevant crew for the operation of the BWTS installed on board?																							0	10	
N	5700.16 In addition to the relevant crew, does the company include shore-based management (ship managers/superintendents/port engineers) in the BWMS training programs?																							0	5	
																								0	60	
			Total score																				0	60		
			Minimum ranking score required for element 5700 = 20																							

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			5801	Protection of fuel oil tanks, lube oil tanks and hull																						
	For Owner / Managers only (Not applicable to 3rd-party ship managers)																									
5801.4	Does the company require ship building yards to use advanced shipbuilding plates (highly ductile steel) or structural features to build (a part of) hull structure and/or fuel tanks of new ships (for example, sandwich plate structure)?																							0	30	
	Total score																							0	30	
			Minimum ranking score required for element 5801 = 0																							
	Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)																									
5810	Stern tube lubrication						0									0										
5810.1	Does the company install a class approved stern tube <u>water</u> lubricated system which uses <u>sea water</u> as a lubricant? (system includes water conditioning and monitoring equipment)																							0	60	
5810.6	Alternative for 5810.1 & 5810.3: Does the company install a class approved stern tube <u>water</u> lubricated system which uses <u>fresh water</u> as a lubricant? (system includes water and conditioning and monitoring equipment) *Additives used to maintain the condition of the water should be environmentally friendly.																							0	50	
5810.3	Alternative for 5810.1 & 5810.6: Is there a company policy to fit vessels with a class approved stern tube lubrication system with an <u>air type</u> or <u>void space seal</u> ?																							0	25	
	Total score																							0	60	
			Minimum ranking score required for element 5810 = 0																							
5811	Mooring wire lubrication						0									0										
5811.1	Is it company policy to 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																							
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		0												
5820.3	Is it company policy to familiarize engine room personnel with on board sludge and bilge water management procedures?																							0	10	
5820.4	Is it company policy to ensure that all engine room personnel are familiar with the system layout, drawings and manuals?																							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	25	
			Minimum ranking score required for element 5820 = 15																							

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				5900	Ship Recycling - Inventory of Hazardous Materials	●		●		●																
		New buildings - For Owner / Managers and 3rd-party Ship Managers For 5900.1, 5900.12 and 5900.2																								
	5900.1	Does the company require the shipyard to develop an "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 and 5900.13																								
	5900.10	Is each Green Award-certified company vessel in the possession of an "Inventory of Hazardous Materials" (Part I completed)?																						0	40	
	5900.13	Alternative to 5900.10: Has the company started the process to prepare Part I of the "Inventory of Hazardous Materials" with a target completion date for each Green Award certified vessel in the fleet?																						0	20	
			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	●		●		●																
		For Owner / Managers only (Not applicable to 3rd-party ship managers)																								
	5910.8	Has a company policy been implemented within the Management System that end-of-life vessels will only be recycled at a recycling facility either compliant with the requirements of the Hong Kong Convention or on the EU-list? (regardless of being sold directly to a recycling facility or to a cash buyer)?																						0	20	
	5910.2	Has a company procedure been implemented within the Management System to audit a recycling facility before concluding a "contract of sale"?																						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	
	5910.9	Does the company disclose it's ship recycling policy in a public domain (such as company website) or via an environmental initiative such as SRTI (Ship Recycling Transparency Initiative)?																						0	10	
		Policy regarding monitoring the recycling of company vessels																								
	5910.10	Has a company procedure been implemented within the Management System to deploy a full-time personnel at the recycling facility for the entire duration of recycling of the company vessels (to monitor and report the recycling process)?																						0	20	
	5910.11	Alternative to 5910.10 & 5910.12 Has a company procedure been implemented within the Management System to hire third-parties (consultants or cash buyers) for continuous monitoring and reporting of the recycling process employed by the recycling facility to dismantle the company vessels?																						0	10	
	5910.12	Alternative to 5910.10 & 5910.11 Has a company procedure been implemented within the Management System to audit the recycling facility during the recycling of the company vessels?																						0	5	
			Total score																			0	140			
			Minimum ranking score required for element 5910 = 60																							

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			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	
6300	Corrosion Prevention of Seawater Ballast Tanks					0																							
6300.8	Is it company policy that ballast tanks of vessels delivered after 01-07-2012, are coated with a hard coating of a light colour?																									0	20		
6300.1	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	

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					6700	Ro-Ro Cargo Ship Practice																					
6700.6	Does the company ensure that an inspection and maintenance scheme is in place to determine and maintain the condition of cargo securing devices and to eliminate deteriorated devices (on board all GA-certified vessels)?																									0	10
6700.7	Does the company ensure that the inspection and maintenance criteria for emergency signage and markings in the cargo space (supporting way finding and orientation in case of fire, e.g. for deck, sections, zones and localities) is included in the planned maintenance system (PMS) of all GA-certified ships.																									0	10
6700.9	Does the company allow the shipboard personnel involved in cargo operations to reject (refuse to load) the cargo(es) deemed to be prone to present fire and safety hazards due to substandard installations and/or other possible issues?																									0	10
Total score																								0	30		
Minimum ranking score required for element 6700 = 10																											

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7000	CREW																										
7100	Employment of Personnel										0																
7100.1	Is it company policy to employ all ship-personnel on a permanent basis?																								0	30	
	Alternative for 7100.1 (7100.2, 7100.3, 7100.4)																										
7100.2	Is it company policy to employ senior officers on a permanent basis?																								0	10	
7100.3	Is it company policy to employ officers on a permanent basis?																								0	10	
7100.4	Is it company policy to employ ratings on a permanent basis?																								0	10	
																									0	30	
			Total score																							0	30
			Minimum ranking score required for element 7100 = 0																								
7200	Extra Personnel, Additional Green Award Requirement																										
7200.1	Is it company policy to employ extra deck officers onboard in addition to what is required by minimum safe manning document?																								0	10	
7200.7	Is it company policy to employ extra engine officers onboard in addition to what is required by minimum safe manning document?																								0	10	
7200.2	Is it company policy to employ extra deck ratings onboard in addition to what is required by minimum safe manning document?																								0	10	
7200.8	Is it company policy to employ extra engine ratings onboard in addition to what is required by minimum safe manning document?																								0	10	
7200.3	Is it company policy to have a ship administrator onboard ? (In addition to the standard complement and extra deck-officers and -ratings above)?																								0	10	
7200.4	Is it company policy to employ riding squads to carry out extensive maintenance jobs ?																								0	10	
7200.9	Is it company policy that manufacturer service engineers routinely attend the vessel or provide remote monitoring assistance for maintenance/repair of technical equipment or systems ?																								0	10	
7200.6	Is it company policy to hire an electrical officer in addition to the engine officers required by the safe manning document?																								0	10	
																									0	80	
			Total score																							0	80
			Minimum ranking score required for element 7200 = 40																								

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			7300	Training / Courses for Personnel Additional Green Award Requirements & IMO Model Courses										0												
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 ?																								0	15
7300.7	Does the company provide "Marine Environmental Awareness" course (IMO 1.38) for all the ship personnel?																								0	10
7300.21	Does the company provide "Marine Environmental Awareness" course (IMO 1.38) to the technical superintendents?																								0	5
7300.22	Does the company provide "Marine Environmental Awareness" (IMO 1.38) to the HSQE manager ?																								0	5
7300.8	Does the company provide bridge team management/ bridge resource management training / course for all deck officers (IMO 1.22) ?																								0	5
7300.19	Does the company provide engine room resource management training/courses for all engine officers ?																								0	5
7300.20	<u>Alternative for 7300.8 & 7300.19</u> Does the company provide maritime resource management course for all officers ?																								0	10
7300.9	Does the company have a structured program for refresher and updated training 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
7300.17	Is it company policy that all the officers are to complete Security Awareness Training ?																								0	5
Total score																							0	100		
Minimum ranking score required for element 7300 = 50																										

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			7400	Familiarization , Additional Green Award Requirements								0		0												
7400.1	Is it company policy that the shipboard crew after a period of absence or leave has been provided with familiarization of changes with regard to the operations/machinery which is related to their position ?																								0	20
7400.2	Is it company policy that newly employed personnel are provided with familiarization with regard to operations/machinery which is related to their position ?																								0	20
7400.9	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
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										0															
	A. General - managing work/rest hours																									
7500.1	Is it a company policy that the work/rest hours performed by the individual seafarer are recorded using a software program and such records are accessible and regularly updated?																								0	5
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
	B. Fatigue management																									
RR	7500.5	Is there a company specific fatigue mitigation and control strategy (or similar document) available within the Safety Management System (SMS) to ensure the health and wellbeing of the seafarers?																							0	30
RR	7500.9	Does the fatigue mitigation and control strategy consist of the following (both): - framework to assess the hazards associated with fatigue (hazard assessment) - strategies to mitigate the risk of fatigue (risk mitigation)																							0	15
RR	7500.10	Does the company ensure that any one of the following fatigue management tools (as described in IMO MSC.1/Circ1598) is used on board GA certified ships: - Sleep Diary - Self-monitoring through fatigue and sleepiness ratings - Fatigue self-assessment tool - Fatigue event reporting																							0	15
	C. Additional questions - reporting, training & awareness																									
7500.7	Does the company have a system in which crew members are able to report to a designated person on fatigue related issues <u>without fearing any action against them for such communication</u> ?																								0	5
7500.11	Does the company conduct fatigue management training and awareness campaigns for shipboard crew on an initial and recurrent basis?																								0	5
Total score																							0	95		
Minimum ranking score required for element 7500 = 60																										

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9000	REQUIREMENTS ACCORDING TO ISO STANDARDS																												
9421	ISO Certification																												
9421.1	Is the company certified for the latest edition of ISO 9001 (quality management systems)?															0	10												
9421.2	Is the company certified for the latest edition of ISO 10015 (quality management – guidelines for competence management and people development)?															0	10												
9421.3	Is the company certified for the latest edition of ISO 14001 (environmental management systems)?															0	10												
9421.4	Is the company certified for the latest edition of ISO 22301 (societal security – business continuity management systems)?															0	10												
9421.5	Is the company certified for the latest edition of ISO 27001 (information security management systems)?															0	10												
9421.6	Is the company certified for the latest edition of ISO 30401 (knowledge management systems – requirements)?															0	10												
9421.7	Is the company certified for the latest edition of ISO 45001 (occupational health and safety management systems)?															0	10												
9421.8	Is the company certified for the latest edition of ISO 50001 (energy management systems)?															0	10												
9421.9	Does the company perform audits at planned intervals to demonstrate the conformity to the requirements of the EnMS (Energy management system) in accordance with ISO 50001:2011?															0	10												
9421.10	Has the company established an energy baseline using the methodology from ISO 50001:2011 with the aim to reduce the energy consumption of the organisation?															0	5												
																Total score													
																0	95												
																Minimum ranking score required for element 9421 = 0													

CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - RO-RO CARGO SHIP - VERSION 2022						
Norm Item		TOTAL SCORE REVIEW OFFICE AUDIT - RO-RO CARGO SHIP	OFFICER RANKING SCORE	MAXIMUM OBTAINABLE RANKING SCORE	MINIMUM RANKING SCORE REQUIRED	ELEMENTS WITH NO MINIMUM SCORE
1000	GENERAL					
1200	Enclosed Space Entry & Hot Work		0	100	100	
1300	Compressor for the refilling of air cylinders for breathing apparatus or Alternative, Additional Green Award requirement		0	20	10	
1400	Control of drugs & alcohol onboard		0	45	20	
1500	Emergency Response System		0	45	25	
1510	Emergency Oil Recovery		0	10	0	
1550	Fire Safety Standards		0	85	40	
1600	Computer Systems, Networks, Data Security and Training. GA requirement		0	65	40	
1610	Cyber Risk Management		0	75	35	
1700	Noise and Vibration Management		0	65	25	
1710	Underwater Noise and Vibration Management		0	30	0	
1800	Social Dimension / Sustainability		0	85	15	
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	
3101	Bunker Operations - LNG		0	50	25	
3200	Fuel oil management		0	120	60	
4000	CARGOES / CARGO OPERATIONS					
4600	Cargo Operations		0	30	10	
4602	Cargo handling and operations		0	20	20	
4606	Safety precautions during cargo operations		0	20	20	
4900	Cargo Operations - Ro-Ro Cargo Ship		0	100	70	
5000	PREVENTION OF POLLUTION					
5100	Biofouling Management		0	30	5	
5200	Waste Management / Garbage Handling Onboard		0	80	30	
5410	NOx Emissions		0	95	35	
5420	SOx Emissions		0	120	20	
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	30	0	
5440	Greenhouse Gas (GHG) Emissions - CO2 Emissions		0	200	0	
5441	Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion		0	55	0	
5450	Newbuild policy		0	40	0	
5460	Environmental Ship Index (ESI)		0	50	0	

CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - RO-RO CARGO SHIP - VERSION 2022						
Norm item		TOTAL SCORE REVIEW OFFICE AUDIT - RO-RO CARGO SHIP	OFFICE RANKING SCORE	MAXIMUM OBTAINABLE RANKING SCORE	MINIMUM RANKING SCORE REQUIRED	ELEMENTS WITH NO MINIMUM SCORE
5500	Sewage Management		0	50	20	
5510	Grey Water Management		0	25	0	
5700	Ballast Water Management		0	60	20	
5801	Protection of fuel oil tanks, lube oil tanks and hull		0	30	0	
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	25	15	
5821	Outfitting of bilge water system		0	50	20	
5822	Outfitting of sludge handling system		0	20	10	
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	70	30	
6200	Mooring Equipment		0	75	45	
6300	Corrosion Prevention of Seawater Ballast Tanks		0	75	40	
6700	Ro-Ro Cargo Ship Practice		0	30	10	
7000	CREW					
7100	Employment of Personnel		0	30	0	
7200	Extra Personnel, Additional Green Award Requirement		0	80	40	
7300	Training / Courses for Personnel Additional Green Award Requirements & IMO Model Courses		0	100	50	
7400	Familiarization, Additional Green Award Requirements		0	80	50	
7500	Safe Manning and Fatigue Management		0	95	60	
9000	REQUIREMENTS ACCORDING TO ISO STANDARDS					
9421	ISO Certification		0	95	0	
	TOTAL SCORES		0	3400	1380	

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".

ENERGY EFFICIENCY TECHNOLOGIES INFORMATION PORTAL

TECHNOLOGY GROUPS
[IMO GLOMEEP Website](#)

GA Code:
 Certificate Holder name:
 Date of Office Audit:

MACHINERY TECHNOLOGIES

This technology group includes measures that improve the energy efficiency of main and auxiliary engines. These include measures such as auxiliary systems optimization, optimizing heat exchangers, waste heat recovery systems, electronic auto-tuning, batteries and other solutions.

Y?	NAME	FUNCTION	TECHNICAL MATURITY*	APPLICABILITY
	Auxiliary systems optimization	Optimizing auxiliary systems to actual operational profiles, not design conditions	Semi-mature	All vessels
	Engine de-rating	De-rating an engine for reduction of the vessel's maximum speed to increase its efficiency by limiting the potential power output	Semi-mature	Vessels sailing 10-15% slower than design speed
	Engine performance optimization (automatic)	Automatic increase of engine efficiency through testing and tuning according to actual operational load and conditions	Semi-mature	Mainly for two stroke engines
	Engine performance optimization (manual)	Manual increase of engine efficiency through testing and tuning according to actual operational load and conditions	Mature	All vessels
	Exhaust gas boilers on auxiliary engines	Exhaust gas boilers recover the heat from the exhaust gas of auxiliary engines to generate steam, hot water or heat for process heating	Semi-mature	Vessels without shaft generator
	Hybridization (plug-in or conventional)	Use of electricity to replace various modes of power consumption	Semi-mature	Vessels with large fluctuations in power output (ferries, offshore vessels, tugs)
	Improved auxiliary engine load	Increase of the auxiliary engines' load and efficiency by reducing the number of auxiliary engines running	Semi-mature	All vessels
	Shaft generator	Produce electricity from the main propulsion engine	Mature	All vessels with high power needs and long transits
	Shore power	Use of cold ironing in ports to reduce fuel consumption on power producing engines	Semi-mature	For smaller vessels and in ports with developed solutions for larger vessels
	Steam plant operation improvement	Improve operations and maintenance of steam plant system saving fuel on oil fired boiler	Mature	Mainly crude and product tankers
	Waste heat recovery systems	Recover thermal energy from the exhaust gas and convert it into electrical energy	Semi-mature	All vessels with engines above 10 MW

PROPULSION AND HULL IMPROVEMENTS

Technologies in this group focus on improving the hydrodynamic performance of the vessel. This includes solutions that reduce the resistance of the vessel and/or also improve the propulsive efficiency of the vessel. Examples include measures such as propeller polishing, hull cleaning, PIDs (Propulsion Improving Devices), air lubrication and more.

Y?	NAME	FUNCTION	TECHNICAL MATURITY*	APPLICABILITY
	Air cavity lubrication	Use of air injection on the wetted hull surfaces to improve a ship's hydrodynamic performance	Semi-mature	Most vessels in deep sea trade
	Hull cleaning	Removal of fouling on the hull to increase the vessel's hydrodynamic performance	Mature	All vessels
	Hull coating	Reduction of the hull's resistance through water	Mature	All vessels
	Hull form optimization	Optimizing the hull for lower resistance through water	Mature	All vessels
	Hull retrofitting	Retrofitting of the bulbous bow, optimizing thruster tunnels or bilge keel to reduce resistance	Mature	All vessels
	Propeller polishing	Removal of fouling on the propeller	Mature	All vessels
	Propeller retrofitting	Retrofitting the propeller to increase efficiency	Semi-mature	All vessels
	Propulsion Improving Devices (PIDs)	Installation of propulsion improving devices	Mature	All vessels

ENERGY CONSUMERS

Consumers are equipment or devices that use energy when operated. Technologies in this group focus on minimizing the energy consumption by improving the device or optimizing the utilization of the device. Examples of measures in this group are frequency controllers, cargo handling systems, low energy lighting and more.

Y?	NAME	FUNCTION	TECHNICAL MATURITY*	APPLICABILITY
	Cargo handling systems (Cargo discharge operation)	Reduction of energy consumption while discharging crude oil by use of model-based studies of the discharge operation	Semi-mature	Tankers
	Energy efficient lighting system	Use of energy efficient lighting equipment, such as LED light, to increase efficiency and remove heat loss from light devices	Mature	All vessels
	Frequency controlled electric motors	Regulating the frequency of the motors in order to adapt the motor optimized load	Mature	All vessels

ENERGY RECOVERY

Technologies in this group focus on capturing energy from the surroundings of the vessel and using or transforming this to useful energy for the vessel. This involves measures such as application of kites, fixed sails or wings, Flettner rotors, or solar panels.

Y?	NAME	FUNCTION	TECHNICAL MATURITY*	APPLICABILITY
	Fixed sails or wings	Use sails or wings to replace some of the propulsion power needed	Not mature	Vessels with enough place on deck (general cargo, tankers, bulkers)
	Flettner rotors	Use Flettner rotors to generate power from wind energy	Not mature	Dependent on trading area and sufficient free deck-surface
	Kite	Use a kite to replace some of the propulsion power needed	Not mature	All vessels
	Solar panels	Install solar panels for conversion of solar energy to electricity	Not mature	Dependent on trading area and sufficient free deck-surface

TECHNICAL SOLUTIONS FOR OPTIMIZING OPERATION

Technologies in this group focus on improving the operation of the vessel more than improving the vessel itself. The list of suggested measures includes both technologies and suggestions for best practice (without direct application of a technology). Measures in this group include trim and draft optimization, speed management, autopilot adjustment and use, combinator optimizing, and others.

Y?	NAME	FUNCTION	TECHNICAL MATURITY*	APPLICABILITY
	Autopilot adjustment and use	Use of an automatic system to control the vessel's rudder in a more energy efficient manner	Mature	All vessels
	Combinator optimizing	Use of optimized pitch settings and propeller speed for optimized efficiency of propulsion system	Mature	For vessels with controllable pitch propeller
	Efficient DP Operation	Optimize the operation in DP mode	Semi-mature	Vessels with DP mode
	Speed management	Management of the vessel's speed in the most efficient manner	Semi-mature	All vessels
	Trim and draft optimization	Optimizing the trim and draft to reduce the vessel's water resistance	Semi-mature	All vessels
	Weather routing	Including weather conditions when planning a voyage	Mature	All vessels

Definitions of maturity levels according to uptake across the maritime industry, and degree of proven technology/principle

- Mature Proven, new or existing technology/principle, with high uptake across the industry.
- Semi-mature Proven, new or existing technology/principle, but with limited uptake across the industry.
- Not mature New unproven-, unproven existing-, or proven existing technology/principle but with very few installations and little to no operational experience.

*This Information Portal is still under development and further images will be added.

This Energy Efficiency Technologies Information Portal was developed in cooperation with DNV GL.

This webpage serves as an Information Portal for Energy Efficiency Technologies for Ships. IMO does not make any warranties or representations as to the accuracy or completeness of the information provided.

[View disclaimer](#)

APPENDIX 3

CHECKLIST - BASIC CRITERIA - SURVEY - RO-RO CARGO SHIP

(RMC-08)

CHECKLIST - BASIC CRITERIA - SHIP SURVEY - RO-RO CARGO SHIP - VERSION 2022																			
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 - Ro-Ro</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 - RO-RO CARGO SHIP - VERSION 2022																				
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				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 - RO-RO CARGO SHIP - VERSION 2022																			
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			112	COMPANY VERIFICATION, REVIEW AND EVALUATION		○		○						○					
112.1	Are internal audits carried out to verify whether safety and pollution-prevention activities, and other procedures, comply with the MS?																		
112.4	Are results of the audits and reviews brought to the attention of all shipboard personnel having responsibility in the area involved?																		
	IMO ELEMENTS																		
200	SOLAS 1974																		
201	SOLAS General Provisions		○								○								
201.1	Compliance with General Provisions																		
213	Certificates and documents on board		○								○								
213.1	Are all regulatory certificates valid ?																		
216	Maritime security		○																
216.1	Does the ship have a valid (interim) International Ship Security Certificate?																		
216.2	Is the ship's crew familiarised in general with the principles of the ISPS Code (ship related) ?																		

CHECKLIST - BASIC CRITERIA - SHIP SURVEY - RO-RO CARGO SHIP - VERSION 2022																			
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				217	Safety of Navigation / SOLAS chart carriage requirements	○				○									
		Alternative 1 (217.1 - 217.4) : 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 (217.1 - 217.4): 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?																	
	217.7	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 (ships contracted to build on or after 1st July 2014) of a gross tonnage of 1,600 and above.)</i>																	
	218.1	Is the noise survey report available onboard?																	
	218.2	Are noise areas marked by placing relevant visible warning notices at the entrance to these areas? (IMO noise symbols)																	

CHECKLIST - BASIC CRITERIA - SHIP SURVEY - RO-RO CARGO SHIP - VERSION 2022																	
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			MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING	Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL
300	MARPOL 73/78																
301	Provisions concerning Reports on Incidents Involving Harmful Substances (Protocol 1)		o		o												
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		o		o		o		o		o		o		o		
310.2	Is the shipboard oil pollution emergency plan maintained and updated?																
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 the SOPEP ?																
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?																
310.11	Does the plan include a list of information required for making damage stability and damage longitudinal strength assessments?																
350	Prevention of pollution by garbage		o		o		o		o		o		o		o		
350.2	Does the vessel have a ship specific garbage management plan detailing the specific ship's equipment, arrangements and procedures for the handling of garbage?																
350.3	Are records kept according to the garbage management plan?																

APPENDIX 4

CHECKLIST - RANKING CRITERIA - SURVEY - RO-RO CARGO SHIP

(RMC-09)

CHECKLIST - RANKING CRITERIA - SHIP SURVEY - RO-RO CARGO SHIP - VERSION 2022																						
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 - Ro-Ro</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 APPL/CABLE	RANKING SCORE	RANKING MAX. SCORE	
			1000	GENERAL																		
1200	Enclosed Space Entry & Hot Work				0		0		0		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	Does the Hot Work permit show the appropriate safety precautions to be taken relevant to the location of work?																				0	5
1200.2	Is crew on board provided with suitable personal protective equipment and suitable equipment for testing the atmosphere of an enclosed space? (e.g. breathing apparatus, protective clothing and approved + calibrated atmosphere testing equipment)																				0	5
1200.8	Are all personnel entering an enclosed space provided with a personal gas detector which can measure HC, oxygen and relevant toxic vapours?																				0	10
1200.9	Is a safety meeting, attended by all personnel involved, held prior to entering the space or commencement of hot work in order to review procedures and PPE (including those specific for the intended work) ?																				0	10
1200.10	Is a responsible officer designated for all aspects of the operation?																				0	5
1200.3	Is ship's crew trained and drilled periodically according to enclosed space entry procedures ?																				0	5
1200.4	Does training also include rescue and first aid?																				0	5
1200.11	Is a rescue / back-up team assigned and ready for immediate action upon call?																				0	5
			Total score																	0	70	
			Minimum ranking score required for element 1200 = 70																			
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																			

CHECKLIST - RANKING CRITERIA - SHIP SURVEY - RO-RO CARGO SHIP - VERSION 2022																						
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 - Ro-Ro</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 APPL/CABLE	RANKING SCORE	RANKING MAX. SCORE	
			1400	Control of drugs & alcohol onboard		0						0				0				0		
1400.2	Is evidence of an unannounced alcohol testing initiated by the office available on board? (Approved test equipment to be available on board)																				0	10
1400.1	Have all current crew members been subjected to shore-based drug and alcohol testing at least once in last 12 months?																				0	15
1400.5	Has the vessel been subjected to unannounced drug and alcohol testing at least once every year (not exceeding 18 months between two consecutive tests) by an external organisation?																				0	10
1400.6	Alternative to 1400.1 & 1400.5: In case crew members are not subject to shore-based drug and alcohol testing at least once in last 12 months, has the vessel been subjected to unannounced drug and alcohol testing at least twice in 12 months by an external organisation?																				0	25
Total score																				0	35	
Minimum ranking score required for element 1400 = 20																						
1500	Emergency Response System		0		0		0				0		0									
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	30	
Minimum ranking score required for element 1500 = 15																						
1510	Emergency Oil Recovery																					
1510.1	Is the vessel equipped with a system providing emergency access to cargo tanks and bunker tanks (for example, from the vessel deck), should the vessel be submerged?																				0	5
1510.2	Does the ship carry an oil skimmer or a similar device that can be used in an emergency situation of oil spill overboard?																				0	5
Total score																				0	10	
Minimum ranking score required for element 1510 = 0																						

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			MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING	Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING			Doc. & Impl.	CATERING PERSONNEL
1550	Fire Safety Standards																		
	Fire Prevention																		
1550.1	Are all onboard fire patrols by designated shipboard personnel conducted with a pre-defined frequency and quality aspects ?																	0	10
1550.2	Are combined smoke and heat detectors capable of deactivating smoke detection only used on board?																	0	5
1550.3	Is it ensured that the ship provide and use only its own connectors and cables for providing electrical power to 'reefer' units during the voyage?																	0	10
1550.4	Is the vessel fitted with remote on/off system for connecting or disconnecting 'reefer' units to/from electrical power source?																	0	10
1550.5	Are the vessel's electrical circuits providing reefer connections fitted with a means of ground fault detection and an alarm to the engine control room.																	0	10
	Fire Detection																		
1550.7	Do the shipboard personnel ensure that during the voyage all vehicle decks are continuously monitored by means of combination of remote supervision (e.g., CCTV) and frequent crew patrols?																	0	20
1550.8	ALTERNATIVE to 1550.7 & 1550.9: Do the shipboard personnel ensure that during the voyage all vehicle decks are continuously monitored by means of adequate technical equipment such as CCTV?																	0	10
1550.9	ALTERNATIVE to 1550.7 & 1550.8: Do the shipboard personnel ensure that during the voyage all vehicle decks are continuously monitored by means of frequent crew patrols?																	0	10
1550.10	Is the vessel fitted with fire detection and alarm system capable of identifying the exact location of the detector that was triggered (e.g., addressable fire detectors with a central control panel)?																	0	10
1550.11	Are means for FLAME DETECTION , either conventional or by video stream analysis installed on weather decks ?																	0	5
	Fire Suppression/Extinction																		
1550.12	Is the frequency of flushing the deluge (sprinkler) system at least two times in a five-year period?																	0	10
1550.13	Do relevant shipboard personnel evaluate the fire drills conducted on board to improve their preparedness and effectiveness?																	0	10
1550.14	Are shipboard personnel trained and on board drills conducted striving towards minimizing the initial response time to a reported smoke/fire?																	0	10
1550.15	Is early activation of fixed-fire fighting system for cargo spaces included in ship fire management procedures?																	0	5
1550.16	Is it ensured that all shipboard officers have the knowledge and mandate for activation of fixed-fire fighting system for cargo spaces, without fear of negative consequences for the individual personnel?																	0	10
			Total score													0	125		
Minimum ranking score required for element 1550 = 50																			

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			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																					
1610	Cyber Risk Management																				
1610.1	Is shipboard crew aware of plans and procedures of cyber risk management (as described in SMS) and their implementation on board?																			0	10
1610.4	Does the cyber risk policy focus on elements such as third-party access and bring your own device (BYOD) in the office?																			0	5
1610.5	Is there a designated shipboard crew member on board appropriately trained to identify and respond to cyber threats to the ship's information and operational technology systems?																			0	5
1610.8	Does the vessel undergo cyber risk assessment (at an interval deemed suitable by the company) by means of either of the following: - self-assessment followed by third party risk assessment - penetration tests of critical IT and OT infrastructure performed by external experts simulating cyber attacks?																			0	5
1610.9	Does the vessel have access to contingency plans and related information in a non-electronic form that need to be followed in the event of a cyber attack?																			0	5
1610.12	Are on-board systems forbidden to be remotely accessed by technicians and manufacturers without authorization by the vessel's senior leadership team (For example, by following a two-step digital authorization process)?																			0	5
Total score																				0	35
Minimum ranking score required for element 1610 = 15																					

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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
2100.13	Is the vessel using weather routing services while on long haul voyage?																	0	10
2100.18	Is the vessel enrolled in a meteorological & oceanographic service in a form of a software application?																	0	10
2100.19	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 an corrected to the latest available updates and NtM)?																	0	5
2111.11	Does the ECDIS procedure suggest display settings (layers) of ECDIS for various navigation conditions (arrival / departure - coastal - deep sea)?																	0	10
2111.12	Does the vessel have a basic folio of paper charts (in case second ECDIS is a back up system)?																	0	10
			Total score															0	55
			Minimum ranking score required for element 2111 = 30																

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			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																			
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														
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																			

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			5420	SOx Emissions										0								
	A. Emission Monitoring																					
5420.11	Does the ship use a continuous emission monitoring system (in-situ or extractive) for monitoring and recording SOx emissions?																			0	10	
	B. Emission Reduction																					
5420.12	Main and auxiliary engines: Does the ship voluntarily burn low sulphur fuel (max. 0.10% sulphur) or use equivalent methodology during the ship's stay at every port? <i>(If exhaust gas cleaning system is used, sulphur content is measured with SO2:CO2 ratio. Ratio of max 4.3 is equal to 0.10% sulphur content)</i>																			0	30	
	C. Additional Questions																					
	Exhaust Gas Cleaning System (EGCS)																					
5420.13	Is the ship fitted with an EGC system which is tested, surveyed, certified and verified under the requirements of Scheme B* (continuous emission monitoring with parameter checks)? <i>* Under scheme B, the SOx emissions compliance plan (SECP) should present how the continuous monitoring of ship exhaust gas emissions will demonstrate that the total SO2(ppm)/CO2(%) ratio is comparable to the requirements of 14.1 and/or 14.4 of MARPOL Annex 6. * The ship should be in possession of EGC technical manual, scheme B (ETM-B).</i>																			0	10	
5420.14	Does the ship communicate negative test results from the continuous monitoring of wash water discharge to the company? <i>*The wash water discharge criteria have been set out in MEPC.259 (68).</i>																			0	10	
5420.15	Is the treated wash water discharged from the EGC unit collected for sampling periodically and communication made to the company for the below parameters? 1.Heavy metals 2.Wash water additives <i>*Above two are on top of the mandatory monitoring of pH, PaH, turbidity values set by IMO.</i>																			0	15	
5420.18	Does the ship have an EGC unit that is capable of operating only in closed-loop mode?																			0	10	
5420.17	ALTERNATIVE TO 5420.18 Does the ship have an EGC unit that is capable of operating both in open and closed-loop mode (hybrid)?																			0	5	
5420.19	Is the EGC unit capable of operating in zero discharge mode*? <i>*Applicable only for vessels fitted with EGCS capable of operating in closed-loop mode.</i>																			0	15	
5420.20	Is appropriate PPE being used by the crew during handling of caustic soda which is used as an additive for closed-loop scrubbers?																			0	5	
																				Total score	0	105
																						Minimum ranking score required for element 5420 = 15

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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	<u>For cases where the vessel must use low sulphur fuel for a 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											
5430.7	Does the ship have a Diesel Particulate Filter (DPF) for both main and auxiliary engines?																				0	10
5430.8	Does the ship have a Diesel Oxidation Catalyst (DOC) for both main and auxiliary engines?																				0	10
5430.9	Does the ship have an Electrostatic Precipitator (ESP) for both main and auxiliary engines?																				0	10
Total score																				0	30	
Minimum ranking score required for element 5430 = 0																						

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		Mid term goals (CO₂ reduction through the use of low carbon fuels)																				0	15	
	5440.18	Main engines: Does the ship burn low carbon fuels such as:																					0	15
		Low carbon fuels				If YES, choose from below options																		
		LNG (Liquefied Natural Gas)																						
		LPG (Liquefied Petroleum Gas)																						
		GTL (Gas to liquid fuel)																						
		Bio-diesel																						
		Bio-LNG (Bio-methane)																						
		Methanol																						
		Ethanol																						
		Dimethyl Ether																						
		Other: *fill during survey*																						
		If Other=																						
	5440.19	Auxiliary engines: Does the ship burn low carbon fuels such as:																					0	15
		Low carbon fuels				If YES, choose from below options																		
		LNG (Liquefied Natural Gas)																						
		LPG (Liquefied Petroleum Gas)																						
		GTL (Gas to liquid fuel)																						
		Bio-diesel																						
		Bio-LNG (Bio-methane)																						
		Methanol																						
		Ethanol																						
		Dimethyl Ether																						
		Other: *fill during survey*																						
		If Other=																						

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					Long term goals (CO₂ neutral operation through zero carbon fuels)																	
	5440.20	Main engines: Does the ship use zero carbon fuels such as:																			0	25
		Zero carbon fuels	If YES, choose from below options																			
		Anhydrous Ammonia																				
		Hydrogen																				
		Fuel Cells (Powered by ammonia or hydrogen)																				
		Batteries																				
		Nuclear																				
		Other: *fill during survey*																				
		If Other=																				
	5440.21	Auxiliary engines: Does the ship use zero carbon fuels such as:																			0	25
		Zero carbon fuels	If YES, choose from below options																			
		Anhydrous Ammonia																				
		Hydrogen																				
		Fuel Cells (Powered by ammonia or hydrogen)																				
		Batteries																				
		Nuclear																				
		Other: *fill during survey*																				
		If Other=																				
	5440.22	Does the ship use renewable energy sources for energy production such as:																			0	25
		Renewable Energy source	If YES, choose from below options																			
		Wind: *fill during survey*																				
		Solar																				
		Other: *fill during survey*																				
		Wind=																				
		If Other=																				
		C. Additional Questions																				
	5440.23	Have shipboard personnel received training for energy efficiency measures and related monitoring systems on board?																			0	10
		Total score																			0	155
			Minimum ranking score required for element 5440 = 15																			

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			5441	Greenhouse Gas (GHG) Emissions - Methane (CH₄) Emissions - Main Propulsion																		
	B. Emission Reduction																					
	Alternative 1 - Gas Turbine or High Pressure Dual Fuel Engine																					
5441.2	Is the ship powered by low (or no) Methane Slip technology, for example, Gas Turbine or High Pressure Dual Fuel (HPDF) Engine?																			0	20	
	Alternative 2 - Other Engine Types																					
5441.3	Has the ship achieved annual reduction in Methane Slip on its LNG-fuelled engines?																			0	10	
	A. Emission Monitoring																					
5441.1	Does the ship use a continuous emission monitoring system (in-situ or extractive) for monitoring and recording Methane Slip?																			0	10	
	C. Additional questions																					
5441.4	Have shipboard personnel received awareness training on methane emissions from LNG-fuelled engines?																			0	5	
			Total score																	0	35	
			Minimum ranking score required for element 5441 = 0																			
5460	Environmental Ship Index (ESI)										0											
5460.2	Does the ship participate in the Environmental Ship Index (ESI) and are ESI points above 30?																			0	20	
5460.3	Does the ship participate in the Environmental Ship Index (ESI) and are ESI points above 40?																			0	20	
5460.4	Does the ship participate in the Environmental Ship Index (ESI) and are ESI points above 50?																			0	20	
			Total score																	0	60	
			Minimum ranking score required for element 5460 = 0																			
5500	Sewage Management																					
	Sewage Treatment Plant																					
5500.1	Is the sewage treated with a sewage treatment plant which uses minimal or no harmful chemicals?																			0	10	
5500.2	Are samples of treated discharged effluent from the sewage treatment plant collected periodically (at least annually) for lab testing ashore to check the compliance with relevant MEPC standards?																			0	10	
5500.3	Is the ship in possession of the periodical sample testing report/certificate from a laboratory ashore confirming the compliance with the relevant MEPC standards?																			0	10	
5500.8	Is the sewage treatment plant regularly checked and maintained as per manufacturer's guidelines?																			0	5	
	For all ships: Sewage Holding Tank																					
5500.7	Is the sewage holding tank regularly checked and maintained?																			0	20	
			Total score																	0	55	
			Minimum ranking score required for element 5500 = 20																			

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				5510	Grey Water Management																	
	5510.1	Is the sewage treatment plant capable of treating grey water before being discharged?																		0	15	
	5510.2	Is the grey water never discharged within the coastal and port areas?																		0	10	
																				0	25	
			Total score																			
			Minimum ranking score required for element 5510 = 0																			
	5700	Ballast Water Management	0	0	0																	
		For ships required to follow D-1 standard (as per International Ballast Water Management Certificate (IBWMC))																				
RR	5700.5	Are tasks & responsibilities of shipboard personnel assigned to ballast water exchange operations defined, documented & controlled ?																		0	5	
	5700.6	Is the master aware of cases where the ship cannot reasonably be expected to carry out ballast water exchange?																		0	5	
N	5700.10	Does the ship voluntarily comply with D-2 ballast water management standard using a type-approved ballast water treatment system (BWTS)?																		0	10	
		For ships required to follow D-2 standard (as per International Ballast Water Management Certificate (IBWMC))																				
N	5700.11	Does the ship carry and implement ship-specific contingency plan prepared taking into account system design limitations, for example, - the UV-based BWTS cannot operate correctly in ports where the water is very muddy, - when operating in low salinity ports, the crew should plan to carry enough salt water or brine in order for the electrochlorination BWTS to function effectively.																		0	10	
N	5700.12	Does the ship undertake (both of) the following in order to keep the BWTS in operable condition: - maintain full inventory of manufacturer recommended spare parts list - maintain safe-margin stock of consumables (such as chemicals with short shelf-life, UV lamps, etc. as required by the installed system)																		0	5	
N	5700.13	Does relevant shipboard personnel make use of suitable personal protective equipment (PPE) for handling chemicals used to operate BWTS?																		0	10	
N	5700.14	Is relevant crew trained to operate specific BWT system installed on board, for example, by means of computer-based training, training at the makers facilities or on a simulation BWMS that mimics real BWTS operations?																		0	10	
N	5700.15	Is the relevant crew familiarized with the operation of the BWTS installed on board?																		0	10	
		For all ships																				
	5700.7	Are sediment volumes monitored & recorded ?																		0	10	
RR	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	
																				0	85	
			Total score																			
			Minimum ranking score required for element 5700 = 50																			
	5800	Accidental Bunker Oil Pollution Prevention Measures (overflow prevention systems)									0											
	5800.5	Are <u>all</u> fuel oil bunker tanks fitted with a high-high level alarm?																		0	15	
	5800.6	Are <u>all</u> fuel oil bunker tanks fitted with an overflow line that is connected to an overflow tank?																		0	5	
	5800.7	Are overflow lines of <u>all</u> fuel oil bunker tanks arranged with a flow alarm?																		0	5	
	5800.8	Are high level alarms and/or (over) flow alarms given on the location where the person in charge of the bunkering or transfer operation will normally be located?																		0	5	
																				0	30	
			Total score																			
			Minimum ranking score required for element 5800 = 5																			

CHECKLIST - RANKING CRITERIA - SHIP SURVEY - RO-RO CARGO SHIP - VERSION 2022																							
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 - Ro-Ro</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 APPL/CABLE	RANKING SCORE	RANKING MAX. SCORE		
			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 20m ³ , constructed at least B/15 or 2 meters 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 meters)																					0	40
5801.3	Are all lubrication oil tanks constructed at least 0.76 meters above the keel line ?																					0	20
5801.4	Is the ship's hull and/or fuel tanks are built of advanced shipbuilding plates (highly ductile steel) or structural features (for example, sandwich plate structure)?																					0	30
																						0	100
			Total score																				
			Minimum ranking score required for element 5801 = 20																				
			Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)																				
5810	Stern tube lubrication				0						0		0										
5810.1	Is the vessel fitted with a class approved stern tube <u>water</u> lubricated system which uses <u>sea water</u> as a lubricant? (system includes water conditioning and monitoring equipment)																					0	60
5810.6	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
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> ?																					0	25
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
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
																						0	60
			Total score																				
			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
																						0	20
			Total score																				
			Minimum ranking score required for element 5811 = 0																				
5812	Deck equipment lubrication (use of oils)										0		0										
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
																						0	55
			Total score																				
			Minimum ranking score required for element 5812 = 0																				

CHECKLIST - RANKING CRITERIA - SHIP SURVEY - RO-RO CARGO SHIP - VERSION 2022																						
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			5820	Management of bilge water and sludge handling onboard				0		0		0		0		0						
5820.3	Are engine room personnel familiarized with on board sludge and bilge water management procedures?																				0	10
5820.4	Are engine room personnel familiar with the system layout, drawings and manuals?																				0	5
																					0	15
			Minimum ranking score required for element 5820 = 15																			
5821	Outfitting of bilge water system				0		0		0		0		0									
	A. Clean Drains (Drains that are normally not contaminated by oil)																					
5821.1	Does the bilge water from the Clean drain tank (for the collection of "clean drains" As per MEPC.1/Circ.642) pass through 15 ppm oil content meter and alarm?																				0	5
5821.17	Does the engine room logbook logs discharges from the Clean drain tank (tank used for the collection of "clean drains", as per MEPC.1/Circ.642)?																				0	5
	B. Soot Collection Tank arrangement																					
5821.10	Is washwater from the economizer/boilers collected in a Soot separation / collection tank?																				0	5
5821.18	Is soot separation / collection tank decanted, remaining water transferred to bilge holding tank and solid soot particles collected for garbage disposal (reception facility)?																				0	10
5821.11	Is an independent pump arrangement available for the discharge from the Soot separation / collection tank to overboard?																				0	5
5821.2	Are management instructions regarding disposal of soot and soot-water mixtures available onboard?																				0	5
	C. Oily bilge water tank arrangement																					
5821.12	Is all Oily bilge water from the bilge wells/drains transferred to the Bilge Primary Tank or pre-separation system for pre-separation of oil and water?																				0	5
5821.5	Is Oily bilge water from the Oily bilge water holding tank pumped through the Oily Water Separator to the Clean water tank (rather than overboard discharge)?																				0	5
	D. Oily water separator / Oil content meter																					
5821.6	N/A for vessels keel laid after 2005 Is the oil content meter with an automatic stopping device capable of measuring the difference between emulsifying particles and oil installed , as per IMO resolution MEPC.107(49)?																				0	5
5821.7	Is there an equipment or a protection system (e.g. White Box) installed that stops the Oily Water Separator from discharging overboard when the Oil Content Meter is flushed/diluted with clean water to prevent illegal discharges of bilge water from machinery spaces?																				0	10
5821.15	Is the authority for operating and maintaining the Oily Water Separator and Oil Content Meter with the master or this is automatically logged in the system?																				0	5
5821.16	Alternative to 5821.15 Is the ship equipped with a system which would ensure that operation and maintenance of the Oily Water Separator and Oil Content Meter can only be started with the Master's permission (for example, Main/Master Switch on bridge)?																				0	5
5821.8	N/A for vessels keel laid after 2005 Is the Oily Water Separator equipped with a re-circulating facility for testing the device with the closed overboard discharge (As per IMO resolution MEPC.107(49) 6.1.1.) ?																				0	5
	5821.9 is an alternative to 5821.1 - 5821.18 (all the above)																					
5821.9	Is all the bilge water from machinery spaces always delivered to reception facilities?																				0	70
																					0	70
			Minimum ranking score required for element 5821 = 20																			

CHECKLIST - RANKING CRITERIA - SHIP SURVEY - RO-RO CARGO SHIP - VERSION 2022																						
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			5822	Outfitting of sludge handling system				0		0		0		0		0						
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
5822.6	Alternative to 5822.8 - 5822.10 Is all the ship sludge always delivered to reception facilities?																				0	20
			Total score																	0	30	
			Minimum ranking score required for element 5822 = 10																			
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)?																				0	110
5900.13	Alternative to 5900.10: Has the process been started to prepare Part I of the "Inventory of Hazardous Materials" with a target completion date?																				0	40
			Total score																	0	110	
			Minimum ranking score required for element 5900 = 40																			

CHECKLIST - RANKING CRITERIA - SHIP SURVEY - RO-RO CARGO SHIP - VERSION 2022																						
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			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																						
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																						
6700	Ro-Ro Cargo Ship Practice																					
6700.1	Does the ship's crew ensure that the following measures are taken on decks and ramps to minimise the probability of serious damage to the cargo? - adequate lighting, - all obstacles (obstructions, stanchions, etc.) are painted or marked in safety colours and - the construction elements most likely to be accidentally run into with cars are padded.																				0	5
6700.2	Does the ship's crew ensure that all internal and external ramps are set at a sufficiently low angle (not more than 8 degrees ramp angle) and offer good grip to the transported vehicles?																				0	5
6700.3	Are the ship's driveways in the turning points equipped with antiskid tapes/painting?																				0	5
6700.4	Are metal parts of vehicle lashings protected to preclude damage?																				0	5
6700.5	Is it ensured (by means of periodic inspection and certificate issued by relevant organization) that the strength and elongation characteristic of mobile chains/lashings is not less than 120 kN?																				0	5
6700.6	Is an inspection and maintenance scheme in place to determine and maintain the condition of cargo securing devices and to eliminate deteriorated devices?																				0	10
6700.7	Is the inspection and maintenance criteria for emergency signage and markings in the cargo space (supporting way finding and orientation in case of fire, e.g. for deck, sections, zones and localities) included in the ship's planned maintenance system (PMS)?																				0	10
6700.8	Are sand boxes, drip trays and mopping up equipment provided on board sufficient for cleaning of minor fuel spillage/leaks on all vehicle decks?																				0	5
Total score																				0	50	
Minimum ranking score required for element 6700 = 20																						

CHECKLIST - RANKING CRITERIA - SHIP SURVEY - RO-RO CARGO SHIP - VERSION 2022																						
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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
	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																			
		A. General - managing work/rest hours																				
	7500.1	Are work/rest hours performed by the individual seafarer recorded with the use of a software programme and the reports generated accessible for the office?																			0	5
	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
		B. Fatigue management																				
RR	7500.5	Does the ship have fatigue mitigation and control strategy (or similar document) available within the Safety Management System (SMS) to ensure the health and well being of the seafarers?																			0	30
RR	7500.9	Does the fatigue mitigation and control strategy consist of the following (both): - framework to assess the hazards associated with fatigue (hazard assessment) - strategies to mitigate the risk of fatigue (risk mitigation)																			0	15
RR	7500.10	Does the Master implement the use of any one of the following fatigue management tools (as described in IMO MSC.1/Circ1598) by shipboard crew on board: - Sleep Diary - Self-monitoring through fatigue and sleepiness ratings - Fatigue self-assessment tool - Fatigue event reporting																			0	15
		C. Additional questions - reporting, training & awareness																				
	7500.7	Does the ship have a procedure in which crew members are able to report to a designated person on fatigue related issues without fearing any action against them for such communication ?																			0	5
	7500.11	Do all shipboard crew members undergo company fatigue management training and awareness campaigns on an initial and recurrent basis?																			0	5
			Total score																	0	85	
			Minimum ranking score required for element 7500 = 60																			

CHECKLIST - RANKING CRITERIA - SURVEY - RO-RO CARGO SHIP - VERSION 2022						
Norm Item		TOTAL SCORE REVIEW SHIP SURVEY - RO-RO CARGO SHIP	SHIPS RANKING SCORE	MAXIMUM OBTAINABLE RANKING SCORE	MINIMUM RANKING SCORE REQUIRED	ELEMENTS WITH NO MINIMUM SCORE
1000	GENERAL					
1200	Enclosed Space Entry & Hot Work		0	70	70	
1300	Compressor for the refilling of air cylinders for breathing apparatus or Alternative, Additional Green Award requirement		0	20	10	
1400	Control of drugs & alcohol onboard		0	35	20	
1500	Emergency Response System		0	30	15	
1510	Emergency Oil Recovery		0	10	0	
1550	Fire Safety Standards		0	125	50	
1600	Computer Systems, Networks, Data Security and Training. GA requirement		0	60	30	
1610	Cyber Risk Management		0	35	15	
1700	Noise and Vibration Management		0	50	15	
1710	Underwater Noise and Vibration Management		0	10	0	
1800	Social Dimension / Sustainability		0	50	10	
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	
3101	Bunker Operations - LNG		0	50	25	
3200	Fuel oil management		0	80	40	
4000	CARGOES / CARGO OPERATIONS					
4500	Hull Stress Monitoring System		0	20	0	
4601	Preparation of loading / unloading plan		0	20	20	
4602	Cargo handling and operations		0	50	50	
4603	Safe work facilities during cargo operations		0	20	20	
4606	Safety precautions during cargo operations		0	40	20	
4900	Cargo Operations - Ro-Ro Cargo Ship		0	160	100	
5000	PREVENTION OF POLLUTION					
5100	Biofouling Management		0	30	5	
5200	Waste Management / Garbage Handling Onboard		0	120	50	
5410	NOx Emissions		0	140	35	
5420	SOx Emissions		0	105	15	
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	30	0	
5440	Greenhouse Gas (GHG) Emissions - CO2 Emissions		0	155	15	

CHECKLIST - RANKING CRITERIA - SURVEY - RO-RO CARGO SHIP - VERSION 2022						
Norm Item		TOTAL SCORE REVIEW SHIP SURVEY - RO-RO CARGO SHIP	SHIPS RANKING SCORE	MAXIMUM OBTAINABLE RANKING SCORE	MINIMUM RANKING SCORE REQUIRED	ELEMENTS WITH NO MINIMUM SCORE
5441		Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion	0	35	0	
5460		Environmental Ship Index (ESI)	0	60	0	
5500		Sewage Management	0	55	20	
5510		Grey Water Management	0	25	0	
5700		Ballast Water Management	0	85	50	
5800		Accidental Bunker Oil Pollution Prevention Measures (overflow prevention systems)	0	30	5	
5801		Protective location of fuel and lubrication oil tanks	0	100	20	
5810		Stern tube lubrication	0	60	15	
5811		Mooring wire lubrication	0	20	0	
5812		Deck equipment lubrication (use of oils)	0	55	0	
5820		Management of bilge water and sludge handling onboard	0	15	15	
5821		Outfitting of bilge water system	0	70	20	
5822		Outfitting of sludge handling system	0	30	10	
5900		Ship Recycling - Inventory of Hazardous Materials	0	110	40	
6000		MAINTENANCE / SURVEYS				
6100		Programme of Inspections	0	50	50	
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	
6500		Certificates for Cargo Gear	0	40	40	
6700		Ro-Ro Cargo Ship Practice	0	50	20	
7000		CREW				
7200		Extra Personnel, Additional Green Award Requirement	0	60	20	
7300		Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses	0	55	20	
7400		Familiarisation, Additional Green Award Requirement	0	70	50	
7500		Safe Manning and Fatigue Management	0	85	60	
9000		REQUIREMENTS ACCORDING TO ISO STANDARDS				
9421		ISO Certification	0	80	0	
		TOTAL SCORES	0	3340	1445	

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".

GA Code:

Ship name:

Date of Ship Survey:

SUPPLEMENT TO 5410 - NOx EMISSIONS

DATA FROM "SUPPLEMENT TO ENGINE INTERNATIONAL AIR POLLUTION PREVENTION CERTIFICATE -- RECORD OF CONSTRUCTION, TECHNICAL FILE, AND MEANS OF VERIFICATION"

Keel Laid (DD/MM/YYYY) (available on supplement to IAPP certificate)	
Vessel assigned to NOx Tier-3 ECA route (Y/N)	
Main propulsion type	DIESEL ENGINE
Electricity generation	DIESEL ENGINE
TIER	NA
Questions applicable (from 5410.11 - 5410.18)	NA

For DIESEL-ELECTRIC & DUAL FUEL (LNG / LPG) data, use "OTHER ENGINE" modules below

MAIN ENGINE 1	NA →			RPM	
				Tier 1	Tier 2
Applicable NOx emission limit (g/kWh)					
Engine's actual NOx emission value (g/kWh)					
Percentage reduction		NA	NA	NA	
GA Compliance					

MAIN ENGINE 2	NA →			RPM	
				Tier 1	Tier 2
Applicable NOx emission limit (g/kWh)					
Engine's actual NOx emission value (g/kWh)					
Percentage reduction		NA	NA	NA	
GA Compliance					

AUXILIARY ENGINE 1	NA →			RPM	
				Tier 1	Tier 2
Applicable NOx emission limit (g/kWh)					
Engine's actual NOx emission value (g/kWh)					
Percentage reduction		NA	NA	NA	
GA Compliance					

AUXILIARY ENGINE 2	NA →			RPM	
				Tier 1	Tier 2
Applicable NOx emission limit (g/kWh)					
Engine's actual NOx emission value (g/kWh)					
Percentage reduction		NA	NA	NA	
GA Compliance					

AUXILIARY ENGINE 3	NA →			RPM	
				Tier 1	Tier 2
Applicable NOx emission limit (g/kWh)					
Engine's actual NOx emission value (g/kWh)					
Percentage reduction		NA	NA	NA	
GA Compliance					

AUXILIARY ENGINE 4	NA →			RPM	
				Tier 1	Tier 2
Applicable NOx emission limit (g/kWh)					
Engine's actual NOx emission value (g/kWh)					
Percentage reduction		NA	NA	NA	
GA Compliance					

GA Code:

Ship name:

Date of Ship Survey:

SUPPLEMENT TO 5410 - NOx EMISSIONS

DATA FROM "SUPPLEMENT TO ENGINE INTERNATIONAL AIR POLLUTION PREVENTION CERTIFICATE -- RECORD OF CONSTRUCTION, TECHNICAL FILE, AND MEANS OF VERIFICATION"

Keel Laid (DD/MM/YYYY) (available on supplement to IAPP certificate)	
Vessel assigned to NOx Tier-3 ECA route (Y/N)	
Main propulsion type	DIESEL ENGINE
Electricity generation	DIESEL ENGINE
TIER	NA
Questions applicable (from 5410.11 - 5410.18)	NA

For DIESEL-ELECTRIC & DUAL FUEL (LNG / LPG) data, use "OTHER ENGINE" modules below

OTHER ENGINE	NA→		RPM	
		Tier 1	Tier 2	Tier 3
Applicable NOx emission limit (g/kWh)				
Engine's actual NOx emission value (g/kWh)				
Percentage reduction		NA	NA	NA
GA Compliance				

OTHER ENGINE	NA→		RPM	
		Tier 1	Tier 2	Tier 3
Applicable NOx emission limit (g/kWh)				
Engine's actual NOx emission value (g/kWh)				
Percentage reduction		NA	NA	NA
GA Compliance				

OTHER ENGINE	NA→		RPM	
		Tier 1	Tier 2	Tier 3
Applicable NOx emission limit (g/kWh)				
Engine's actual NOx emission value (g/kWh)				
Percentage reduction		NA	NA	NA
GA Compliance				

ENERGY EFFICIENCY TECHNOLOGIES INFORMATION PORTAL

TECHNOLOGY GROUPS
[IMO GLOMEEP Website](#)

GA Code:
 Ship name:
 Date of Ship Survey:

MACHINERY TECHNOLOGIES

This technology group includes measures that improve the energy efficiency of main and auxiliary engines. These include measures such as auxiliary systems optimization, optimizing heat exchangers, waste heat recovery systems, electronic auto-tuning, batteries and other solutions.

Y?	NAME	FUNCTION	TECHNICAL MATURITY*	APPLICABILITY
	Auxiliary systems optimization	Optimizing auxiliary systems to actual operational profiles, not design conditions	Semi-mature	All vessels
	Engine de-rating	De-rating an engine for reduction of the vessel's maximum speed to increase its efficiency by limiting the potential power output	Semi-mature	Vessels sailing 10-15% slower than design speed
	Engine performance optimization (automatic)	Automatic increase of engine efficiency through testing and tuning according to actual operational load and conditions	Semi-mature	Mainly for two stroke engines
	Engine performance optimization (manual)	Manual increase of engine efficiency through testing and tuning according to actual operational load and conditions	Mature	All vessels
	Exhaust gas boilers on auxiliary engines	Exhaust gas boilers recover the heat from the exhaust gas of auxiliary engines to generate steam, hot water or heat for process heating	Semi-mature	Vessels without shaft generator
	Hybridization (plug-in or conventional)	Use of electricity to replace various modes of power consumption	Semi-mature	Vessels with large fluctuations in power output (ferries, offshore vessels, tugs)
	Improved auxiliary engine load	Increase of the auxiliary engines' load and efficiency by reducing the number of auxiliary engines running	Semi-mature	All vessels
	Shaft generator	Produce electricity from the main propulsion engine	Mature	All vessels with high power needs and long transits
	Shore power	Use of cold ironing in ports to reduce fuel consumption on power producing engines	Semi-mature	For smaller vessels and in ports with developed solutions for larger vessels
	Steam plant operation improvement	Improve operations and maintenance of steam plant system saving fuel on oil fired boiler	Mature	Mainly crude and product tankers
	Waste heat recovery systems	Recover thermal energy from the exhaust gas and convert it into electrical energy	Semi-mature	All vessels with engines above 10 MW

PROPULSION AND HULL IMPROVEMENTS

Technologies in this group focus on improving the hydrodynamic performance of the vessel. This includes solutions that reduce the resistance of the vessel and/or also improve the propulsive efficiency of the vessel. Examples include measures such as propeller polishing, hull cleaning, PIDs (Propulsion Improving Devices), air lubrication and more.

Y?	NAME	FUNCTION	TECHNICAL MATURITY*	APPLICABILITY
	Air cavity lubrication	Use of air injection on the wetted hull surfaces to improve a ship's hydrodynamic performance	Semi-mature	Most vessels in deep sea trade
	Hull cleaning	Removal of fouling on the hull to increase the vessel's hydrodynamic performance	Mature	All vessels
	Hull coating	Reduction of the hull's resistance through water	Mature	All vessels
	Hull form optimization	Optimizing the hull for lower resistance through water	Mature	All vessels
	Hull retrofitting	Retrofitting of the bulbous bow, optimizing thruster tunnels or bilge keel to reduce resistance	Mature	All vessels
	Propeller polishing	Removal of fouling on the propeller	Mature	All vessels
	Propeller retrofitting	Retrofitting the propeller to increase efficiency	Semi-mature	All vessels
	Propulsion Improving Devices (PIDs)	Installation of propulsion improving devices	Mature	All vessels

ENERGY CONSUMERS

Consumers are equipment or devices that use energy when operated. Technologies in this group focus on minimizing the energy consumption by improving the device or optimizing the utilization of the device. Examples of measures in this group are frequency controllers, cargo handling systems, low energy lighting and more.

Y?	NAME	FUNCTION	TECHNICAL MATURITY*	APPLICABILITY
	Cargo handling systems (Cargo discharge operation)	Reduction of energy consumption while discharging crude oil by use of model-based studies of the discharge operation	Semi-mature	Tankers
	Energy efficient lighting system	Use of energy efficient lighting equipment, such as LED light, to increase efficiency and remove heat loss from light devices	Mature	All vessels
	Frequency controlled electric motors	Regulating the frequency of the motors in order to adapt the motor optimized load	Mature	All vessels

ENERGY RECOVERY

Technologies in this group focus on capturing energy from the surroundings of the vessel and using or transforming this to useful energy for the vessel. This involves measures such as application of kites, fixed sails or wings, Flettner rotors, or solar panels.

Y?	NAME	FUNCTION	TECHNICAL MATURITY*	APPLICABILITY
	Fixed sails or wings	Use sails or wings to replace some of the propulsion power needed	Not mature	Vessels with enough place on deck (general cargo, tankers, bulkers)
	Flettner rotors	Use Flettner rotors to generate power from wind energy	Not mature	Dependent on trading area and sufficient free deck-surface
	Kite	Use a kite to replace some of the propulsion power needed	Not mature	All vessels
	Solar panels	Install solar panels for conversion of solar energy to electricity	Not mature	Dependent on trading area and sufficient free deck-surface

TECHNICAL SOLUTIONS FOR OPTIMIZING OPERATION

Technologies in this group focus on improving the operation of the vessel more than improving the vessel itself. The list of suggested measures includes both technologies and suggestions for best practice (without direct application of a technology). Measures in this group include trim and draft optimization, speed management, autopilot adjustment and use, combinator optimizing, and others.

Y?	NAME	FUNCTION	TECHNICAL MATURITY*	APPLICABILITY
	Autopilot adjustment and use	Use of an automatic system to control the vessel's rudder in a more energy efficient manner	Mature	All vessels
	Combinator optimizing	Use of optimized pitch settings and propeller speed for optimized efficiency of propulsion system	Mature	For vessels with controllable pitch propeller
	Efficient DP Operation	Optimize the operation in DP mode	Semi-mature	Vessels with DP mode
	Speed management	Management of the vessel's speed in the most efficient manner	Semi-mature	All vessels
	Trim and draft optimization	Optimizing the trim and draft to reduce the vessel's water resistance	Semi-mature	All vessels
	Weather routing	Including weather conditions when planning a voyage	Mature	All vessels

Definitions of maturity levels according to uptake across the maritime industry, and degree of proven technology/principle

- Mature Proven, new or existing technology/principle, with high uptake across the industry.
- Semi-mature Proven, new or existing technology/principle, but with limited uptake across the industry.
- Not mature New unproven-, unproven existing-, or proven existing technology/principle but with very few installations and little to no operational experience.

*This Information Portal is still under development and further images will be added.

This Energy Efficiency Technologies Information Portal was developed in cooperation with DNV GL.

This webpage serves as an Information Portal for Energy Efficiency Technologies for Ships. IMO does not make any warranties or representations as to the accuracy or completeness of the information provided.

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APPENDIX 5

CHECKLIST - VISUAL INSPECTION - SURVEY - RO-RO CARGO SHIP

(RMC-10)

Green Award Visual Inspection - Ro-Ro Cargo Ship

Green Award Visual Inspection - Ro-Ro Cargo Ship				
Check Box	Norm item		Inspection Focus	Remarks
	10100	Machinery		
	10101	Reports		
	10101.1	Classification reports	Survey reports with recommendations and conditions of class, repairs	
	10101.2	State Authority reports	Survey reports, recommendations	
	10101.3	Company Reports	Inspection, repair, maintenance, planning, dry-dock reports by ship's staff and superintendents	
	10101.4	Inspection guidelines	Guidelines on the means of access to structures for inspection and maintenance of bulkers	
	10101.5	Other reports	Vetting reports by chartering companies and independent surveyors	
	10102	Engine Room		
	10102.1	Overall tidyness of E.R. space	Unsecured and loose material, tools and E.R. spare-parts	
	10102.2	General cleanliness of E.R.	Oil- & gas-free environment	
	10102.3	Storage E.R. equipment	Equipment stored at designated places	
	10102.4	Handling of general E.R. waste	General waste stored & handled properly	
	10102.5	Indication of E.R. emergency escapes	Clearly visible and not obstructed	
	10102.6	Save-alls	Oil, liquid and dirt free	
	10102.7	Workshop	Safety instructions near machinery (Grindstone, Lathe etc)	
	10103	Main Propulsion		
	10103.1	Exhaust gas lines	Leakage / condition of lagging, black spots and stripes / loose lagging	
	10103.2	Fuel lines H.P. & L.P.	H.P. pipes condition of protecting pipe/cover, L.P. pipes check leakage and heating tracings	
	10103.3	Cleanliness of cylinder heads	Fuel oil, cooling water, lub. Oil and exhaust gas leaks	
	10103.4	Instructions on emergency stand	Are there clear instructions available for changing over from normal to emergency conditions	
	10103.5	Condition of controllers / thermo couples & wiring	Loose wires, open doors of controllers	
	10103.6	Fuel oil system	Filters for leakage, purifiers cleanliness, area around purifiers	
	10103.7	Lub. Oil system	Filters and save-alls, purifiers condition	
	10103.8	Starting air system	Condition of starting air lines and valves	
	10103.9	Cooling water system	Condition of expansion bellows	
	10104	Auxiliary Engines		
	10104.1	General performance		
	10104.2	Leakage, condition of fuel oil, lub. oil lines	Cracks, corrosion and / or pipes connections not tight	
	10104.3	Auxiliary Engine bilge	Oil-, water-, corrosion- and dirt-free	
	10104.4	Emergency Generator	Condition and date last tested	
	10105	Boilers		
	10105.1	Steam or Thermal oil		
	10105.2	Condition of burner front	Oil leakage, and air leakage	
	10105.3	Lagging / isolation of fuel and steam lines	Condition of lagging	
	10105.4	Thermal Oil	Check possible leakages bellows / quick closing valves	
	10105.5	Boiler bilge / Save-all	Oil-, water-, corrosion- and dirt-free	

Green Award Visual Inspection - Ro-Ro Cargo Ship

Check Box	Norm item		Inspection Focus	Remarks
	10100	Machinery		
	10106	Bilge System		
	10106.1	Cleanliness of bilges on every platform	Presence of oil, water, corrosion and / or dirt	
	10106.2	Bilge separator, position of all valves		
	10106.3	In port overboard valve sealed		
	10106.4	Condition and record regarding oily-bilge separator	Check Oil Record Book - Machinery Space Operations	
	10106.5	Bilge alarms	Alarms high level & high-high level in good condition	
	10106.6	Emergency Bilge Suction valve	Check condition / last time tested	
	10106.7	Double bottom sounding pipes	Check functioning self closing valves	
	10107	Ballast Pumps		
	10107.1	Condition of pumps	Check functioning of pumps	
	10107.2	Condition ballast-system	Functioning of all pumps combined	
	10107.3	Condition supports	Corrosion, cracks, deformation of pump-supports	
	10108	Piping Systems		
	10108.1	General condition	Check for leakage and / or temporary repairs	
	10108.2	Condition of piping supports	Check for corroded, broken and / or missing supports	
	10109	General Service Air Systems		
	10109.1	Condition of air and oil drains	Check good working	
	10109.2	Condition of pipe lines	Check for leakage and / or temporary repairs	
	10109.3	Condition of safety valves	Check free movement	
	10110	Chemicals		
	10110.1	Sufficient Personal Protecting Equipment available	Near storage place and users place	
	10110.2	Sufficient signboards available	Near storage place and users place	
	10110.3	Storage of chemicals according safety rules	According makers safety instructions	
	10111	Electrical		
	10111.1	Generator inspections during operation max. load		
	10111.2	Examination of cables without attachments	Cable supports bulkhead and deck penetrations	
	10111.3	Electrical equipments in acc. with danger zones	Zeners barriers etc.	
	10112	Inert Gas Plant (optional)		
	10112.1	Inert Gas system fully operational		
	10112.2	Condition of all instrumentation	Special O2 meter	
	10112.3	Condition of all alarms and trips	High and low level alarms etc.	
	10113	Sewage Plant		
	10113.1	Sewage Plant fully operational	Alarms, level switches etc.	
	10113.2	Position of valves correct	Check if the by-pass valves are closed	

Green Award Visual Inspection - Ro-Ro Cargo Ship

Green Award Visual Inspection - Ro-Ro Cargo Ship				
Check Box	Norm item		Inspection Focus	Remarks
	10100	Machinery		
	10114	Fire Pumps		
	10114.1	Position of firepump valves	Are instructions available for position of valves	
	10114.2	General check of emergency firepump	Position of Fuel valve, Content of fuel tank etc.	
	10114.3	Operating instructions of firepump and drive-unit	Clear instruction board available	
	10115	Emergency Electrical Stops		
	10115.1	Emergency stops of general service pumps	Last time tested	
	10115.2	Emergency stops of steering gear pumps	Last time tested	
	10115.3	Emergency stops of fans	Last time tested	
	10116	Quick Closing Valves		
	10116.1	Condition of closing valve station	Check for clear instructions	
	10116.2	Condition of closing valves E.R.	Check for obstructions or other objects	
	10117	Gauge Glasses		
	10117.1	Condition of gauge glasses closing valves	Check proper working and if they are normal closed	
	10117.2	Condition gauge glasses lub. oil tanks	Check proper working and if they are normal closed	
	10117.3	Condition gauge glasses chemical tanks	Check proper working and if they are normal closed	
	10117.4	Condition gauge glasses fuel tanks	Check proper working and if they are normal closed	
	10118	Ventilation		
	10118.1	Fire flaps in trunks engine room	Check markers open/close and proper working	
	10118.2	Fire flaps	Check proper working	
	10119	Exhaust gases of machinery		
	10119.1	Emission of main engines	Content NOX en SOX	
	10200	Steering Gear		
	10201	SOLAS requirements		
	10201.1	Steering gear unit complies with SOLAS		
	10201.2	Steering gear room complies with SOLAS		
	10201.3	Steering gear unit - and room cleanliness	Check for hydraulic leaks, presence of water and / or oil in drip-trays	
	10202	Change over procedures		
	10202.1	Emergency steering gear change over procedures	Signs posted with instructions for emergency change-over	
	10202.2	Procedures for emergency change-over visible	Clearly visible near controls of steering gear unit	
	10203	Testing		
	10203.1	Emergency-steering tested recently	Check records in engine / deck logbook	
	10203.2	Steering Gear	Check records in engine / deck logbook. Testing before arrival and departure.	

Green Award Visual Inspection - Ro-Ro Cargo Ship

Check Box	Norm item		Inspection Focus	Remarks
	10200	Steering Gear		
	10204	Charging emergency header tank		
	10204.1	Emergency header tank fully charged		
	10204.2	Fixed storage tank installed		
	10205	Compass		
	10205.1	Compass present in steering gear room		
	10205.2	Compass clearly visible from control-station		
	10206	Bridge Communications		
	10206.1	Satisfactory communications with bridge		
	10206.2	Telephone available and working		
	10206.3	Sound powered telephone available and working		
	10207	Visibility of Rudder Angle Indicator		
	10207.1	Rudder angle indicator present		
	10207.2	Rudder angle indicator visible at steering position		
	10208	Access to Steering Gear		
	10208.1	Entrance door to steering gear room closed	Door to be kept closed at all times and not lashed or blocked in open position	
	10208.2	Access to steering gear unit unobstructed	Steering gear room should be uncluttered with easy access to all components of the system	
	10208.3	Safety and protection measures fitted	Vessels > 10.000 GT should have railings around the steering gear and deck non-slip surface	
	10208.4	Bilge alarms	Alarms high level & high-high level in good condition	
	10300	Ballast System		
	10301	Drawings / Diagrams Layout in Control Room		
	10301.1	All relevant drawings and diagrams available	Pipe Line diagrams, mimic diagrams etc should be available	
	10301.2	Drawings visible	Drawings clearly visible and understandable for operation	
	10302	Functioning of Ballast Pumps		
	10302.1	Is every separate pump working		
	10302.2	Ballast pumps with temperature sensors		
	10302.3	Is all equipment combined working		

Green Award Visual Inspection - Ro-Ro Cargo Ship

Green Award Visual Inspection - Ro-Ro Cargo Ship				
Check Box	Norm item		Inspection Focus	Remarks
	10400	Structural		
	10401	Drawings		
	10401.1	Review of all relevant structural drawings	Overview structural design and scantlings	
	10402	Reports		
	10402.1	Classification reports	Survey reports with thickness readings, recommendations and conditions of class, repairs	
	10402.2	State Authority reports	Survey reports, recommendations	
	10402.3	Company Reports	Inspection reports, repair, maintenance and dry-dock reports by ship's staff and superintendents	
	10402.4	Inspection guidelines	Guidelines on the means of access to structures for inspection and maintenance of oil tankers	
	10402.5	Other reports	Vetting reports by chartering companies and independent surveyors	
	10407	Double Bottom Ballast Tanks (including hopper)		
	10407.1	Condition structural integrity	Check main-strength members and general condition	
	10407.2	Condition bulkhead-, bottom-plating, web, stiffeners	Check for deformations, fractures, damages, leakages	
	10407.3	Condition girders and transverse web-frames	Check intersection with longitudinal girders and transverse webs (focus area outer-shell)	
	10407.4	Condition girders and corrugated bulkheads	Check longitudinal girder under hopper and transverse stool under corrugated bulkhead	
	10407.5	Condition brackets	Check bracket-ends and toe-ends of stringers, webs and girders	
	10407.6	Condition webs	Check connection of webs with longitudinals at shell and bulkheads	
	10407.7	Corrosion protection	Check coating, sacrificial anodes	
	10407.8	Corrosion pattern	Locate corrosion near bulkhead stools, plating, surfaces and areas with sediment	
	10408	Void Spaces / Cofferdams / Pipe duct		
	10408.1	Condition structural integrity	Check main-strength members, any non-continuous structural material and general condition	
	10408.2	Condition brackets, stringers, webs and girders	Check for deformations, fractures, damages, leakages	
	10408.3	Corrosion pattern	Locate corrosion in deckhead-, bulkhead (near bunkers) areas, bottom- and longitudinal-plates	
	10408.4	Condition pipelines and valves	Check for leakages and corrosion , temporary repairs and patches, hydraulic leaks overhead-area	
	10408.5	Condition access platforms, walkways and ladders	General condition of all supports, corrosion, cracks etc.	
	10409	Bunker Oil Tanks		
	10409.1	Condition structural integrity	Check main-strength members, any non-continuous structural material and general condition	
	10409.2	Condition brackets, stringers, webs and girders	Check for deformations, fractures, damages, leakages	
	10409.3	Corrosion pattern	Locate corrosion in deckhead-, bulkhead areas, bottom- and longitudinal-plates	
	10409.4	Condition pipelines and valves	Check for leakages and corrosion , temporary repairs and patches, hydraulic leaks overhead-area	
	10409.5	Condition access platforms, walkways and ladders	General condition of all supports, corrosion, cracks etc.	

Green Award Visual Inspection - Ro-Ro Cargo Ship

Check Box	Norm item		Inspection Focus	Remarks
	10400	Structural		
	10410	Main Deck & Fittings		
	10410.1	Deck plating - deformations	May indicate problems from underneath, stiffeners or underneath deck-plating	
	10410.2	Deck plating - fractures	May indicate substantial corrosion and / or local stress areas	
	10410.3	Deck plating - damages	Caused by collisions and / or grab damage	
	10410.5	Tank entrances and deck openings	Condition check covers and closing devices	
	10410.6	Pipeline couplings, flanges, branches and supports	Condition check, deformation, cracks, corrosion, tightness	
	10410.7	Closing appliances for ventilation	Condition check covers and closing devices	
	10410.8	Bunker and oil tank derating pipes	Check flame screens and coamings	
	10411	Accommodation & Machinery Spaces		
	10411.1	Structural integrity	General condition, damages & defects	
	10411.2	Doors, windows, ventilation ducts, closing devices	Condition check and water tightness	
	10411.3	Stairs and platforms	Condition check, corrosion / deformations	
	10411.4	Pipelines, valves, couplings, overboard connection	Condition check	
	10411.5	Safety equipment	Condition check CO2, Halon system, extinguishers, fire hoses, alarms etc.	
	10411.6	Certificates for safety equipment		
	10412	Mooring equipment		
	10412.1	Mooring lines	Condition mooring lines	
	10412.2	Winches	Foundation bolts firm, casing crack-, corrosion-free, no leakages and save-all	
	10412.3	Condition winch-brakes	Check last test report and thickness linings	
	10413	Anchoring equipment		
	10413.1	Anchors, anchor shackles and chain	Wear, corrosion, clearances inside hawser pipe	
	10413.2	Anchor winch and associated gear	Foundation, no leakages, condition of brakes, hinges and hinge plates	
	10413.3	Anchor securing	Condition and workable	

Green Award Visual Inspection - Ro-Ro Cargo Ship

Check Box	Norm item		Inspection Focus	Remarks
	10500	Safety / Rescue		
	10501	Safety equipment		
	10501.1	Certificates	Check certificates, reports and safety drills	
	10501.2	Safety plan	Check available and clearly visible	
	10502	Rescue equipment		
	10502.1	Life boat + davits	Check condition (incl. Kathodic wear) and working order	
	10502.2	Rescue boat + davits	Check condition (incl. Kathodic wear) and working order	
	10502.3	Life rafts + release system	Check condition (incl. Kathodic wear) and working order	
	10502.4	Accommodation ladders, pilot ladders and gangway	Check condition and working order	
	10502.5	Life jackets	Check condition and working order	
	10502.6	Life bouys	Check condition (incl. Kathodic wear) and working order	
	10503	Fire fighting		
	10503.1	CO2 / Halon system	Pressure gauges / indicators on bottles / pipelines / nozzles	
	10503.2	Foamtank	Content / Filling	
	10503.3	Fire control plans	Check available and clearly visible	
	10503.4	Portable fire extinguishers	Check ready for use	
	10503.5	Fireman's outfit	Check ready for use, easily accessible	
	10503.6	Breathing Apparatus charging compressor	Check ready for use, easily accessible	
	10503.7	International Ship/Shore Fire connection	Check available both sides	
	10503.8	Fire alarm system and detectors	Check test records, condition in accommodation, ER and boiler room	
	10503.9	Fire flaps and vent stops	Check condition on deck, accommodation, ER and boiler room and clearly marked	
	10503.10	Fire lines	Check condition on deck, accommodation, ER and boiler room	
	10503.11	Fire hoses	Check condition on deck, accommodation, ER and boiler room	
	10503.12	Fire system for scavenging air receiver and boiler front	Check condition and working order separate fire fighting system	
	10504	Escape routes		
	10504.1	Free access	Check free access without obstructions	
	10504.2	Indicators	Check clear markers / positioning	
	10504.3	Emergency lighting	Check clear markers / positioning	