### **Green Award Foundation**

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

# Annex 3b: Green Award Requirements (<u>Bulk carrier</u>) Version 2022

Checklists for Office Audits and Ship Surveys

Effective as of 1 May 2022



## Annex 3b: Green Award Requirements (Bulk carrier)

#### **Bulk carriers**



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#### **Legend for Checklists**

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

<sup>\*</sup> for detailed interpretations of the colours and the usage of the checklist, please refer to the pdf-file named

#### **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

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<sup>&</sup>quot;Instruction Notes" located on www.greenaward.org under "Certification/Download".

## **APPENDIX 1**

CHECKLIST - BASIC CRITERIA - OFFICE AUDIT - BULK CARRIER

(BMC-06)

		CHECKLIST - BASIC CRITERIA - OFFICE AUD	IT -	BUL	K (	CAR	RIE	R - \	VER	SIO	N 202	2								
Revision Code	Norm item	BASIC Office - Bulk	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT. Doc. & Impl.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT. Doc. & Impl.	IT DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl. NOT APPLICABLE
	100	MANAGEMENT ELEMENTS																		
	101	GENERAL			0		0		0		0	0		0			0		0	
	101.1	Are the Management System (MS) Manuals maintained and updated?																		
	102	SAFETY AND ENVIRONMENTAL PROTECTION POLICY			0		0		0		0	0		0						
	102.1	Is a company policy concerning safety and the environment and which is signed by the Man. Dir., available?																		
	102.2	Are objectives concerning safety and the environment described?																		
	102.3	Is this policy maintained and implemented at all shore-based levels as well as all ship-based levels?																		
	103	COMPANY RESPONSIBILITIES AND AUTHORITY			0		0		0		0	0		0			0		0	
	103.1	Is the entity who is responsible for the operations of the ship clearly defined? (Owner or entity)																		
	103.2	Are shore-ship communications, defined levels of authority and lines of communication established?																		
	103.3	Are responsibilities and authorities of all office personnel clearly defined?																		
	103.4	Is the designated person provided with shore-based support and adequate resources?																		
	104	DESIGNATED PERSONS	0		0															
	104.1	Is/are (a) designated person(s) assigned in the office?																		
	104.3	Is objective evidence available that the safety and environmental aspects of the operation of each ship is monitored and that required adequate resources and shore-based support is applied?																		
	105	MASTER'S RESPONSIBILITY AND AUTHORITY			0		0		0		0	0		0					0	
	105.1	Is the responsibility of the master clearly defined and documented?																		
	105.6	Does the company have the overriding authority of the master clearly defined? (ISM Code 2002 5.2)																		
	105.7	Are master's reviews reported and evaluated?																		

		CHECKLIST - BASIC CRITERIA - OFFICE AUD	IT -	BUL	K C	CAR	RIE	R - '	VER	SIO	N 20	22									
Revision Code	Norm item	BASIC Office - Bulk	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT.	Joc. & Impl.	OPER./CHART DEPT. Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	т рерт.	Doc. & Impl.	INS- / CLAIM DEPT. Doc. & Impl.	NOT APPLICABLE
	106	RESOURCES AND PERSONNEL AND STCW			0						0						Ī				
	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			0		0		0		0		0	0						0	
	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	0		0		0		0		0		0	0				0		0	
	108.1	Does the system cover the arrangements needed to ensure that the company, day and night, 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 AUD	IT -	BUI	LK (	CAR	RIE	R -	VEF	SIO	N 20	22									
Revision Code	Norm item	BASIC Office - Bulk	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.	NOT APPLICABLE
	109	REPORTS AND ANALYSES OF NON-CONFORMATIES, ACCIDENTS AND HAZARDOUS OCCURENCES			0		0		0		0	•		0					0	)	
	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 ?												1			T				
	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			0		0		0												
	110.1	Are ship inspections held at defined intervals? (minimum of twice a year or equivalent)																			
	110.2	Are non-conformities reported including their possible cause?																			
	110.3	Is appropriate corrective action taken?																			
	110.4	Are records of these activities maintained?																			
	110.5	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			0																
	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?																			П
	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	0		0		0		0		0	(	)	0		0		0	0	)	
	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?																			$oxed{L}$
	112.4	Are the results of audits and reviews brought to the attention of all personnel having responsibility in the area involved?																			
	112.5	Have the management personnel, responsible for the area involved, taken timely corrective actions on deficiencies found?																			

		CHECKLIST - BASIC CRITERIA - OFFICE AUD	IT -	BUL	LK (	CAR	RIE	R - `	VER	SIO	N 20	022										
Revision Code	Norm item	BASIC Office - Bulk	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.	FORC IN ONE WILL	Doc. & Impl.	IT DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl. NOT APPLICABLE	
		IMO ELEMENTS																				
	200	SOLAS 1974																				
	201	SOLAS, General Provisions					0		0													
	201.1	Compliance with General Provisions																				
	211	Enhanced Surveys					0		0													
	211.1	Are enhanced surveys performed and approved by the Classification Society?																				
	212	SOLAS Certificates					0		0													
	212.1	Is an overview of the valid certificates per ship available and is the overview updated?																				
	215	Additional Safety Measures for Bulk Carriers					0		0				0									
	215.1	Does the bulk carrier comply with the requirements of Ch. XII?																			$\perp$	
	217	Safety of Navigation / SOLAS chart carriage requirements							0				0									
		ECDIS (Compulsory carriage of ECDIS)																				
	217.1	If carriage of ECDIS is compulsory, is it a company policy for the ECDIS to be type-approved according to Res A 817(19) as amended by MSC 64 (67) and MSC 86 (70) or MSC.232(82)?																				
	217.3	Is it a company policy that an acceptable back-up arrangement is in place? (an independent type-approved ECDIS with an independent position fixing system using official Electronic Navigational Charts (or a combination of official ENCs and Raster Navigational Charts) or a full / reduced folio of up-to-date paper charts, as relevant to the ship's voyage)																				
		Training & Onboard Use of ECDIS (Compulsory carriage of ECDIS)																1				T
	217.5	Is it a company policy that all officers and masters that use ECDIS for primary navigation are to complete generic training based on IMO model course 1.27?																				
	217.7	Is it a company policy that a risk assessment is carried out for the operation of ECDIS which identifies and controls the hazards when using ENCs and (if used) when ECDIS is in RCDS mode?																				
	217.9	Is the risk assessment and relevant onboard procedures + instructions reviewed on a regular basis (at least once a year or if circumstances require a review)?																				
	218	Noise Levels On Board Ships																				
		(Only applicable to new ships (ships contracted to build on or after 1st July 2014) of a gross tonnage of 1,600 and above.)																				
	218.1	Is it company policy that the ships are surveyed for the measurement of noise level and the results recorded in the noise survey report in accordance with the Res MSC.337(91)?																				
	218.2	Is it company policy to identify areas of the vessels based on the noise levels and to place relevant visible warning notices at the entrance to these areas? (IMO noise symbols)																				

		CHECKLIST - BASIC CRITERIA - OFFICE AUD	T - 1	BUL	K C	AR	RIER	- V	ERS	ION	2022											
Revision Code	Norm item	BASIC Office - Bulk	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	DED CONNET DEDT	Doc. & Impl.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	IT DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	NOT APPLICABLE	
	300	MARPOL 73/78																				
	301	Provisions concerning Reports on Incidents Involving Harmful Substances (Protocol 1)			0				0			0										
	301.1	Does the company have a procedure in order to report an incident to the nearest coastal state in the event of the ship being abandoned or if a report from the ship is incomplete or unobtainable?																				
	310	Prevention of pollution by oil			0				0			0										
	310.1	Is a shipboard oil pollution emergency plan developed?																				
	310.3	Is training and testing of the oil pollution emergency plan done?																				
	310.4	Is the plan reviewed? (periodic and event review)																				
	310.5	Is an updated list of persons to be contacted available? (coastal States, port contacts, company interest contacts)																				
	310.6	Is office personnel familiar with the shipboard oil pollution emergency plan?																				
	310.7	Does the company have a policy concerning the retention and disposal of oil residues (sludge)?																				
	350	Prevention of pollution by garbage			0		0		0													
	350.2	Has the company developed a ship specific garbage management plan detailing the specific ship's equipment, arrangements and procedures for the handling of garbage?																				
	350.4	Is it a company policy to designate a person responsible for execution of the garbage management onboard?									•					•						

## **APPENDIX 2**

CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - BULK CARRIER

(BMC-07)

		CHECKLIST - RANKING CRITERIA - OFFICE AU	DIT	- Bl	JLK C	ARI	RIEF	۲ - ۷	ERS	ION 2	2022									
Revision Code	Norm item	RANKING Office - Bulk	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.	FINANCIAL DEPT.	Doc. & Impl.	IT DEPT.	Doc. & Impl.	INS- / CLAIM DEPT. Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	1000	GENERAL																		
	1200	Enclosed Space Entry & Hot Work				0		0												
	1200.1	Is there an Enclosed Space Entry and Hot Work permit to work system, taking account of IMO and industry guidelines and where relevant local port / terminal requirements?																	0	10
	1200.6	Is company approval of the Hot Work permit required before work can begin?																	0	10
	1200.7	Is an evaluation of the Hot Work permit made (permit shows the appropriate safety precautions relevant to the location of work)?																	0	20
	1200.12	Is the HSQ Manager designated to authorise hot work?																	0	20
	1200.2	Is crew on board provided with suitable personal protective equipment and suitable equipment for testing the atmosphere of an enclosed space? (e.g. breathing apparatus, protective clothing and approved + calibrated atmosphere testing equipment)																	0	5
	1200.8	Are all personnel entering an enclosed space provided with a personal gas detector which can measure HC, oxygen and relevant toxic vapours?																	0	10
	1200.9	Is it company policy that a safety meeting, attended by all personnel involved, is held prior to entering the space or commencement of hot work in order to review procedures and PPE (including those specific for the intended work)?																	0	10
	1200.10	Does the company require a responsible officer to be designated for all aspects of the operation?																	0	5
	1200.3	Is ship's crew trained and drilled periodically according to enclosed space entry procedures?																	0	5
	1200.4	Does training also include rescue and first aid?																	0	5
				l n	linimur	n rank	ding s	core r	equire		al score	1200 = 10	ın.						0	100
	1300	Compressor for the refilling of air cylinders for breathing apparatus or alternative, Additional Green Award Requirement		, and a		0		O	equil e		ement	1200 = 10								
	1300.1	Is it company policy that the vessels have a compressor for the refilling of air cylinders for breathing apparatus?																	0	20
	1300.2	Alternative for 1300.1: sufficient number of air cylinders for the sole purpose of safety drills																	0	10
				1-							al score								0	20
				١	/linimur	n rank	ung s	core r	equire	d for e	ement 1	1300 = 10	)							

		CHECKLIST - RANKING CRITERIA - OFFICE AU	DIT	- B	ULK	CA	RRIE	R -	VEF	RSIO	N 20	022									
Revision Code	Norm item	RANKING Office - Bulk	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	00c. 8pi.	TECHNICAL DEPT.  Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.  Doc. & Impl.	IT DEPT.	Doc. & mipi.	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
				1	Minim	ım r	anking	scor	e regi			score	400 -	20						0	45
	1500	Emergency Response System					uniting	0		an cu i	0			<u></u>							
	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
					Minim	ım r	anking	scor	e regi			score ment 1	500 =	25						0	45
	1510	Emergency Oil Recovery				Ï	9							Ī							
	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

		CHECKLIST - RANKING CRITERIA - OFFICE AU	DIT	- B	ULK	CA	RRI	ER -	· VEI	RSIC	N 2	2022										
Revision Code	Norm item	RANKING Office - Bulk	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT. Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.  Doc. & Impl.	IT DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE RANKING SCORE	E SANKING WAY	Minning igns, cccist
	1600	Computer Systems, Networks, Data Security and Training			0											0						
	1600.1	Are arrangements for shore and vessel systems documented ? (configuration scheme)																		0	1	0
	1600.2	Are adequate system back-up's for office administrative PC systems made (where applicable) and are procedures for this documented ?																		0	ţ	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	1	0
	1600.4	Is the internal audit scheme applicable to the IT department?																		0	1	0
	1600.5	Are computer systems, in relation to IMO MSC/Circ.891, certified by a recognised organisation?																		0	1	0
	1600.6	Is a system administrator designated for administrative PC systems in the office ?																		0		0
					Minim	um r	rankin	a scoi	re rea			al score		= 40						0	6	i5
	1610	Cyber Risk Management				T																
	1610.1	Does the company have plans and procedures of cyber risk management (cyber risk policy) incorporated within its Safety Management System (SMS)?																		0	2	20
	1610.3	Does the cyber risk policy differentiate between IT (information technology) and OT (operational technology) systems?																		0	1	0
	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	į	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	į	5
	1610.6	Does the company have a policy in place to build new ships equipped with cyber secure systems and components?																		0	ţ	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	ţ	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	ţ	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	į	
				1.	Minim		onl-l-	0.000				l score		2F						0	7	<b>'</b> 5
					Minim	um i	rankin	g scoi	re req			ement		= 35						-		=

		CHECKLIST - RANKING CRITERIA - OFFICE AU	DIT	- B	UL	K C	ARF	RIEF	₹ - V	ERS	ION	2022	2									
Revision Code	Norm item	RANKING Office - Bulk	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.	ІТ DEPT.	Doc. & Impl.	INS- / CLAIM DEPT. Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	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?	<u> </u>																		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
					B. Stranto					!		tal sco		0 = 25							0	65
	1710	Underwater Noise and Vibration Management			IVIIIIII	IIIuIII	Tank	ing s	core	equire	u ioi	elelllel	170	0 = 25								
	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
		If others =	*fill (	durin	g au	dit*				-												
	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
					Mini	mum	ranki	ina s	core r	aquira		tal sco elemer		0 - 0							0	30

		CHECKLIST - RANKING CRITERIA - OFFICE AU	DIT	- B	ULI	КС	ARI	RIEF	R - \	/ER	SIOI	<b>1</b> 20	22									
Revision Code	Norm item	RANKING Office - Bulk	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	FEBT.	Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	RANKING SCORE	RANKING MAX. SCORE
	1800	Social Dimension / Sustainability																				
		A. Good Health & Well-Being					_					_		_					_	_		_
	1800.1	Does the company ensure that all vessels under its control have an ITF or similar agreement in place?																			0	10
	1800.2	Does the company have procedure regarding relieving shipboard personnel on compassionate grounds? (For example, in case of a family emergency)																			0	5
	1800.3	Is the company subscribed to any digital platform (web or app) that can be referred to by shipboard staff for seeking medical advice?																			0	5
	1800.4	Does the company ensure that the shipboard staff is aware of platforms (online/offline) providing access to emotional support networks to tackle mental health issues?																			0	5
	1800.5	Does the company provide access to the internet at all times for shipboard personnel on board all ships under its control?																			0	5
		B. Reduced Inequalities / Equal Opportunities / Diversity																				
		B.1 General																				
	1800.6	Does the company have a policy focusing on subjects such as equal opportunities, equality and diversity, inclusion, anti-discrimination, anti-harassment, etc. to prevent and eliminate discrimination at workplace (office and ship)?																			0	10
	1800.7	Does the company have confidential reporting procedures enabling all employees to report harassment & discrimination?																			0	5
	1800.8	Does the company take steps to create awareness among its staff (on shore & off shore) and to ensure effective implementation of its policies focusing on subjects such as equal opportunities, equality and diversity, inclusion, anti-discrimination, anti-harassment, etc.?																			0	5
		B.2 Gender-specific																				
	1800.10	Does the company take steps to promote and achieve gender diversity/equality at office and on board vessels (at all levels)?																			0	10
	1800.11	Does the company provide the following specific facilities for its women seafarers:  – feminine hygiene items (in bonded stores) & separate disposal facilities on board  – separate washrooms with sanitary facilities on board  – suitable sized (gender specific) safety and protective clothing on board  – access to medical supplies without having to consult male colleagues on board																			0	5
		C. Sustainability Reporting												-					-		-	-
	1800.12	Does the company prepare and publish its performance on environmental, social and governance criteria annually (in line with internationally recognised frameworks, such as GRI, IIRC and SASB standards)?																			0	20
	1										T	otal s	core								0	85

		CHECKLIST - RANKING CRITERIA - OFFICE AU	DIT ·	- BI	ULK	CA	RRIE	ER -	VER	SION	202	2								
Revision Code	Norm item	RANKING Office - Bulk	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.	RANKING SCORE	RANKING MAX. SCORE
	2000	NAVIGATION / BRIDGE OPERATIONS																		
	2100	Navigation						0			0									
	2100.6	Does the company have a contract for automatic supply of new hydrographic publications?																	0	10
	2100.7	Does the company have a contract for electronic update of hydrographic publications? (eg. Temporary and Preliminary NtM)																	0	10
	2100.8	Is it a company policy to include navigational equipment in electronic Planned Maintenance System?																	0	10
	2100.9	Are masters entitled to use non-compulsory pilot services? (must be stated in a company procedure)																	0	10
	2100.12	Is the company aware of the vessel's critical areas transiting?																	0	10
	2100.13	Does the company use weather routing services for ships on long haul voyages?																	0	10
	2100.18	Is it a company policy to enrol the vessels in a meteorological & oceanographic service in a form of a software application?																	0	10
	2100.19	Alternative to 2100.18: Do the vessels have a capability to receive comprehensive weather information from the office or from coastal stations / platforms?																	0	5
	2100.14	Does the company have instructions for navigating in sensitive areas? (IMO SN/Circulars)								-									0	10
	2100.15	Is it a company policy to equip vessels with the multi constellation GNSS receivers?																	0	10
	2100.16	Is it a company policy to equip vessels with the eLoran receivers?																	0	10
	2100.17	Is it a company policy that the position for all stages of voyage is compared with a different method of positioning than GPS?																	0	20
											otal sc								0	120
				l	Minim	num i	ranking	score	e requ	ired for	eleme	nt 2100	= 50							

		CHECKLIST - RANKING CRITERIA - OFFICE AU	DIT	- BI	II K	CA	PPI	- P	VE	PSIC	N 20	122								- CA10 01	Office	, tuant
Revision Code	Norm item	RANKING Office - Bulk	JAN.		EPT.		Doc. & Impl.	DEPT.	Joc. & Impl.	L DEPT.	Doc. & Impl.		URCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	Joc. & Impl.	T DEPT.	Doc. & Impl.	NS- / CLAIM DEPT.	VOT APPLICABLE	ANKING SCORE	ANKING MAX. SCORE
	2110	Electronic chart display & information systems / ECDIS	g	۵	<u> </u>	i č		0	۵	<u>.</u>			_	٥	Ē	۵	<u> </u>	٥	<u>د د</u>	2	~	2
		Only applicable to the companies with the fleet for which the implementation date is still in the future																				
	2110.3	Is it a company policy to have ECDIS available onboard the vessels for training purpose at least 12 months ahead of implementation date?																		na	0	0
	2110.2	Does the company have an introduction programme for the crew in relation to usage of ECDIS?																		na	0	0
				///// N	linim	um r	anking	scor	e req	uired 1	Total or elei			= 0			—	—	—		0	0
	2111	Electronic chart display & information systems / ECDIS																				
		Applicable to the companies with ships for which carriage of ECDIS is compulsory and Bulk Carriers which choose to use ECDIS as primary means of navigation on voluntary basis																				
	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
				N	/linim	um r	anking	scor	e req	uired 1	Total or elei			: 35				_			0	60
	2120	Fuel Change Over / Ballast Water Exchange		_	0			0			C	_										
	2120.1	Is it company policy that the voyage plan (checklist) include when fuel change over should 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?															<u> </u>				0	10
			_	N	/linim	um r	anking	scor	e rea	uired f	Total or ele			= 20				—			0	20
	2300	Mooring Operations		T				0					Ī					П				
	2300.1	Does the company have procedures/instructions for mooring/unmooring operations?																╈			0	10

		CHECKLIST - RANKING CRITERIA - OFFICE AU	DIT	- Bl	ILK (	CAR	RIE	R - \	VER	SIO	N 20	)22									
Revision Code	Norm item	RANKING Office - Bulk	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.	т DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	3000	MACHINERY / ENGINE OPERATIONS																			
	3100	Bunker Operations				0					0										
	3100.1	Does the company MS specify a safe-maximum percentage fill for bunker tanks? (max. limit 95%)																		0	10
	3100.2	Is a checklist used for bunker operations (company format) ?																		0	10
	3100.3	Does the bunker procedure include a bunker plan (company format)?																		0	10
	3100.4	Are there procedures/instructions for the internal transfer of fuel oil between main storage tanks?																		0	10
	3100.5	Is there an instruction that all persons involved are to be familiar with the intended bunker operation and/or internal transfer operation and their duties?																		0	10
				Į.							Total			_						0	50
	3101	Bunker Operations   INC		N	linimu	m ran	iking s	score	requi	ired fo	or eler	nent 3	100 = 5	0							
	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
				Tax	linim	m ra-	leiner :	2005-	roggi		Total		101 - 2	) E						0	50
				N	linimu	m ran	king s	score	requi				101 = 2	25						0	30

RANKING Office - Bulk  3200 Fuel oil management  A. Contracting / Procurement  M/A in case charterer is responsible for supplying bunkers (for all GA ships) Is it company procedure that bunker purchasing contracts state that the fuel oil be supplied with reference to ISO 8217 specifications (latest edition is recommended)?  N/A in case owner / manager or third party ship manager is responsible for purchasing bunkers (for all GA ships) Is it company procedure that the technical requirements of the ship and optimal fuel oil specifications are communicated to the charterer for their consideration?  Is an evaluation of all fuel oil suppliers carried out to identify "quality-oriented fuel oil suppliers"	Doc. & Impl. INS-/CLAIM DEPT. Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
A. Contracting / Procurement    N/A in case charterer is responsible for supplying bunkers (for all GA ships)				
3200.14  N/A in case charterer is responsible for supplying bunkers (for all GA ships) Is it company procedure that bunker purchasing contracts state that the fuel oil be supplied with reference to ISO 8217 specifications (latest edition is recommended)?  N/A in case owner / manager or third party ship manager is responsible for purchasing bunkers (for all GA ships) Is it company procedure that the technical requirements of the ship and optimal fuel oil specifications are communicated to the charterer for their consideration?  Is an evaluation of all fuel oil suppliers carried out to identify "quality-oriented fuel oil suppliers"				
Is it company procedure that bunker purchasing contracts state that the fuel oil be supplied with reference to ISO 8217 specifications ( <u>latest edition is recommended</u> )?    N/A in case owner / manager or third party ship manager is responsible for purchasing bunkers (for all GA ships)   Is it company procedure that the technical requirements of the ship and optimal fuel oil specifications are communicated to the charterer for their consideration?    Is an evaluation of all fuel oil suppliers carried out to identify "quality-oriented fuel oil suppliers"				
3200.15    bunkers (for all GA ships)			0	10
Is an evaluation of all fuel oil suppliers carried out to identify "quality-oriented fuel oil suppliers"			0	10
3200.13 before signing the bunker purchasing contract with a chosen supplier and are the negative results brought to the attention of the charterer (where applicable)?			0	10
B. Sampling & Testing				
B.1 MARPOL delivered fuel oil sampling				
Is it company policy that fuel oil sampling (during bunkering) is carried out using an automatic sampler (time or flow proportional) in accordance with Marpol Annex VI?			0	10
B.2 In-use fuel oil sampling				
Is it company policy that fuel oil samples are drawn from the following designated sampling points at least once every four months for testing of catalytic fines & separator efficiency at a recognized fuel analysis organization ashore?  1. at engine inlet 2. before separator 3. after separator			0	10
B.3 Testing		•	•	
Is it company procedure that bunkered fuel oil is <u>always</u> tested (before use onboard) by a recognized fuel analysis organization ashore in accordance with the requirements of ISO 8217 standard (same edition for which the fuel was ordered)?			0	40
C. Operational procedures				
3200.17 Does the company prohibits its ships to commingle two different bunkers (even of the same grade of fuel)?			0	10
For the situations where commingling of two different fuels is unavoidable, does the company have commingling procedure explaining the steps to be followed to determine the compatibility of two bunkers (including the reference test methods)?			0	5
D. Additional questions	•		<u>.</u>	
3200.5 Are global bunker quality alerts received from company fleet experience and fuel analysis organisation shared with relevant ships by issuing technical bulletins or circulars?			0	10
Is it company procedure that bunker suppliers are asked to provide the copies of the product's valid certificate of quality (COQ) and associated laboratory analysis reports verifying the details on the COQ?			0	5
Total score			0	120

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	4000	CARGOES / CARGO OPERATIONS					_					_										
	4600	Cargo Operations	0				0	(	•			0						0		$\vdash$		
	4600.2 4600.5	Is company aware of cargo specifications which are required by the charterer of the ship?  Does the charter party specify that the cargo to be loaded must be under the supervision and direction of the master?																			0	20
	4600.6	Does the charter party specify the action to be taken in the event of stevedores' damage?																			0	10
	4600.7	Does the charter party specify that the loading / unloading plan of the ship has to be followed?																			0	10
	4600.8	Does the charter party specify that cargo has to be provided with a certificate of transportable moisture limit?																			0	10
					Minin		ronki	2000				score ement 4		20							0	60
	4601	Preparation of loading / unloading plan	0		IVIIII	IIuiii	0	ily scc		uneu		0	+000 =	20				0				
	4601.1	Does the company distribute relevant cargo instructions to the vessel? (i.e. is ship compatible for intended cargo?)																			0	20
	4601.2	Does the company provide the master with clear instructions about identity of charterer with respect to reporting and consultation? (especially when ship is chartered by sub-charterers)																			0	10
	4601.3	Does the shipbroker (or head office staff) contact the master to request his confirmation that a cargo can be safely carried and his calculations of the tonnage that the ship can carry between specified ports?																			0	20
	4601.4	Is the ship provided with information about the terminal in order to plan the loading and unloading plan?																			0	10
	4601.6	Is the master provided with information on the strength of the hull girder system for representative scenarios of loading and discharging under intended loading conditions?																			0	20
			<u> </u>		Minin	num	rankii	na sca	ore red	uired		score ement 4		80							0	80
	4602	Cargo handling and operations	0			III	0	ing sec		uneu		0	1001 =					0				
	4602.1	Is it company procedure that the ship shore safety checklist for loading or unloading dry bulk cargo carriers (MSC/Circ. 690) 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?											1								0	10
	4602.6	Is it company policy that a written cargo declaration has to be issued before commencement of loading?																			0	10
	4602.7	Does the company have procedures / instructions regarding stevedore damage?																			0	10
	4602.13	Is it company policy that cargo which is liable to stick between frames is removed on time? (e.g. in order to prevent damage caused by pneumatic hammers, bulldozers etc.)																			0	10
			├		Minin	num	ranki	na scr	ore rec	uired		score	1602 -	40							0	50
	4606	Safety precautions during cargo operations	0				0	ing sec				0						0				
	4606.1	Does the company have instructions / procedures to control the access of unauthorised 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?									Ī										0	10
					Minin	num	ranki	ng sco	ore req			score		20						_	0	20

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	5000	PREVENTION OF POLLUTION																				
	5100	Biofouling Management																				
N	5100.5	the control and management of ships' biofouling to minimize the transfer of invasive aquatic																			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?																			D	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)?																		-	D	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?																		-	D	10
												score		_							)	30
			Щ	ľ	Vinim	ium r	anking	scor	e requ	uired 1	tor ele	ment (	5100 =	5								

		CHECKLIST - RANKING CRITERIA - OFFICE AU	IDIT	- B	ULI	K C	ARF	RIEF	R - V	ERS	SION	1 202	22										
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	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.2 Cargo residue																					L
	5200.26	Is it a company policy that cargo residues are always delivered ashore?																			0	10	
		B.3 Ashes and clinkers					1																L
	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																					
	5200.27	Is it company policy to use <u>non harmful</u> (MARPOL Annex V compliant) cleaning agents and additives for cleaning the cargo holds?																			0	10	
	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	
					Baller !							otal so		200 5	_						0	100	
					Wini	mum	rank	ing s	core i	equir	ed tor	elem	ent 52	200 = 50	U								J

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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 YE	ES, d	choo	se f	rom	belo	ow o	ption	s												
		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?  *The guidelines set out in MEPC.259 (68) are applicable to EGR bleed-off discharge water as well.																				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?  *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.																				0	5
		Selective Catalytic Reduction (SCR)																					
	5410.26	Does the company install a monitoring unit which monitors and measures any formation of ammonia slip?  *The monitoring unit should be capable of issuing a warning in the event of ammonia formation.																				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?  *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.																				0	5
7	1		1									Total	score	,								0	95

		CHECKLIST - RANKING CRITERIA - OFFICE AU	DIT	- B	ULK	( C	ARR	RIER	R - VI	ERS	ION	202	2								
Revision Code	Norm item	RANKING Office - Bulk	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.	FINANCIAL DEPT.  Doc. & Impl.	т DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	5420	SOx Emissions	Ū	_	0		0					Ĭ		0							
		A. Emission Monitoring																			
	5420.11	Does the company 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 company voluntarily burn low sulphur fuel (max. 0.10% sulphur) or use equivalent methodology during the ship's stay at every port? (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)																		0	50
		C. Additional Questions																			
		Exhaust Gas Cleaning System (EGCS)																			
	5420.13	Does the company use the requirements of Scheme B* (continuous emission monitoring with parameter checks) for testing, survey, certification and verification of EGC systems on board all its ships having such systems (EGC)?  * 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.  * Ships should be in possession of EGC technical manual, scheme B (ETM-B).																		0	20
	5420.14	Are negative test results from the continuous monitoring of wash water discharge collected from the ship and addressed by the company? *The wash water discharge criteria have been set out in MEPC.259 (68).																		0	10
	5420.16	Does the company take adequate measures to avoid breakdown of the EGCS unit?  Measures should include (all of) the following:  1. Material requisitions  2. Redundancy  3. Risk of condensation  4. Safety process regarding handling and storage of caustic soda.  5. Noise prevention  6. Contingency plan for failure  7. Remote monitoring  8. Technical support from the manufacturer (Telephone helpline)																		0	20
	5420.20	Does the company's PPE matrix include handling of caustic soda for closed-loop scrubbers?																		0	5
	5420.21	Does the company provide relevant crew with manufacturer training course for the EGC unit?																		0	5
			$\Box$									tal sc		20 = 20						0	120

		CHECKLIST - RANKING CRITERIA - OFFICE AU	JDIT	Г - В	UL	K C	ARR	RIER	- VE	RSI	ON	2022										
Revision Code	Norm item	RANKING Office - Bulk	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.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	5421	Ships required to carry out Fuel Change Over to low sulphur MARINE DIESEL OIL or low sulphur MARINE GAS OIL (low sulphur Distillates)					0															
	5421.1	Has the company carried out a safety assessment with respective manufacturers, for any necessary modifications to the vessel's boilers and each fuel system onboard? (modifications should be class approved)																			0	30
	5421.2	Does company policy require <b>updated</b> fuel change over procedures (company approved) to be available onboard for the main engine, auxiliary engines and boilers? (procedures should be available for each fuel type used onboard)																			0	10
												al sco									0	40
					Mini	imum	ı ranki	ing sc	ore red	quired	l for e	elemen	t 542	1 = 40	_							_
	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 Y	ES,	choc	ose f	rom k	below	optio	ons								_		-		
		Diesel Particulate Filter																				
		Diesel Oxidation Catalyst																				/
		Electrostatic Precipitator																		7/		
												al sco									0	30
					Mini	imum	ı ranki	ing sc	ore red	quired	l for e	elemen	t 543	0 = 0								

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Revision Code	Norm item	RANKING Office - Bulk	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.	INS- / CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	5440	Greenhouse Gas (GHG) Emissions - CO <sub>2</sub> 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 YE	ES, c	hoos	se fr	rom	belo	w opt	ions	and f	ill-in s	uppl	lement	CO2	- GI	oMEEI	P 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																		<u> </u>		
	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	<u>Alternative to 5440.16</u> : 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

		CHECKLIST - RANKING CRITERIA - OFFICE AU	JDIT	- B	ULK	CAF	RRIE	R - V	ERS	SION	2022									
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		Mid term goals (CO <sub>2</sub> 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 Y	ES, d	choose	fror	m belo	ow opt	ions											
		LNG (Liquefied Natural Gas)																		7
		LPG (Liquefied Petroleum Gas)																		/
		GTL (Gas to liquid) fuel																		
		Bio-diesel																		/
		Bio-LNG (Bio-methane)																	/	
		Methanol																		
		Ethanol																		
		Dimethyl Ether																	/	
		Other: *fill during audit*																/ إ	,	
		If others =																$\bot\!\!\!/$		
	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 Y	ES, d	choose	fror	m belo	ow opt	ions	i										
		LNG (Liquefied Natural Gas)																		7
		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 =																$\perp$		

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		Long term goals (CO <sub>2</sub> 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:																				25
		Zero carbon fuels	If Y	ES. o	choo	se f	rom	belo	w o	otions	s											
		Anhydrous Ammonia					· · · · ·		I ,			T			ı		T			1		
		Hydrogen	1				1		1			+			1		-		1	$\dashv$		
		Fuel Cells (Powered by ammonia or hydrogen)	1												1		-					
		Batteries	$\vdash$									+			1		-		f			/
		Nuclear	1									1			1		-		1	$\dashv$	/	<b>,</b>
		Other: *fill during audit*													T							
		If others =																				
	5440.21	Auxiliary engines: Does the company have any vessels within their fleet which use zero carbon fuels such as:																		ľ	(	25
		Zero carbon fuels	If Y	ES, d	choo	se f	rom	belo	ow o	otions	S									•	-	
		Anhydrous Ammonia																				/
		Hydrogen																				
		Fuel Cells (Powered by ammonia or hydrogen)																				
		Batteries																				
		Nuclear																				
		Other: *fill during audit*																				
		If others =																		,	<u>/                                     </u>	
	5440.22	Does the company have any vessels within their fleet which use renewable energy sources for energy production such as:																			(	25
		Renewable Energy source	If Y	ES, d	choo	se f	rom	belo	ow o	otions	S	_								_		
		Wind *fill during audit*																				
		Solar																				
		Other: *fill during audit*																			,	
		Wind =	1_																			
		If others =	-							1		1								_	<u>/_</u>	
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)?																			(	
					Mini		ront	ina :		rogu:			score	140 - 0							(	200
					Winir	mum	rank	ing s	score	requi	red to	eler	ment 5	<del>1</del> 40 = 0	)							

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Revision Code	Norm item	RANKING Office - Bulk	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.  DEPSONNEL DEPT	Doc. & Impl.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	Coc. a mp.	IT DEPT. Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	NOI APPLICABLE RANKING SCORE	RANKING MAX. SCORE
	5441	Greenhouse Gas (GHG) Emissions - Methane (CH <sub>4</sub> ) 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
					Minir	num	rank	ing s	core r	equir		tal sc		141 =	0						0	55
	5450	Newbuild policy			0		0	Ī														
	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
												tal sc									0	40
						num		ing s	core r	equir	ed for	eleme	ent 54	450 <b>=</b>	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
				,,,,,,,,,,								tal sc									0	50
		D			Minir	num	rank	ing s	core r	equir	ed for	eleme	ent 54	160 =	0							
	5500	Sewage Management																				
		Sewage Treatment Plant Is it company policy to treat the sewage with a sewage treatment plant which uses minimal or no								-		1	1		- 1		1		1			1
	5500.1	harmful chemicals?								1											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												1								_
	5500.6	Did the company perform a risk assessment to calculate the capacity of the holding tank?																			0	20
					Minir	num	rank	ing c	core r	o annie		tal sc		500 -	20						0	50

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	5510	Grey Water Management																			
	5510.1	Is it company policy to install a sewage treatment plant capable of treating grey water?																	C	)	15
	5510.2	Is it company policy to not discharge grey water within coastal and port areas?									T-1	-1							0		10
					Minin	num	rankii	ng so	ore re	quire		al score		0					(		25
	5700	Ballast Water Management					0	C	)												
		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 ?																	C	)	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?																	C	)	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)?																	C	,	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.																	d	)	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)																	d	)	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?																	d		10
N	5700.15	Does the company conduct on-board familiarization of relevant crew for the operation of the BWTS installed on board?																	C	)	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?																	d		5
												al score							0		60

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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
																					0	30
			new ships (for																			
		Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)																				
	5810	Stern tube lubrication					0						(	<b>)</b>								
	5810.1	Does the company install a class approved stern tube <u>water</u> lubricated system which uses <u>sea water</u> as a lubricant? (system includes water conditioning and monitoring equipment)																			0	60
	5810.6	Alternative for 5810.1 & 5810.3:  Does the company install a class approved stern tube water lubricated system which uses fresh water 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 air type or void space seal?																			0	25
			Total score 0 60													60						
			Total score 0 6  Minimum ranking score required for element 5810 = 0																			

RANKING Office - Bulk  Set1 Mooring wire lubrication  Set12 Deck equipment lubrication (use of oils)  Set2 Deck equipment lubrication (use of oils)  Set2 Is it company policy to use grasse that is certified according to the EEL (all deck equipment)?  Set2 Is it company policy to use profraulic oil that is certified according to the EEL (in mooring and anchor appliances?)  Set2 Is it company policy to use Pydraulic oil that is certified according to the EEL in mooring and anchor appliances?  Set2 Is it company policy to use Pydraulic oil that is certified according to the EEL in mooring and anchor appliances?  Set2 Is it company policy to use Pydraulic oil that is certified according to the EEL in mooring and anchor appliances?  Set2 Is it company policy to use Pydraulic oil that is certified according to the EEL in mooring and anchor appliances?  Set2 Is it company policy to use Pydraulic oil that is certified according to the EEL in mooring and anchor appliances?  Set2 Is it company policy to use Pydraulic oil that is certified according to the EEL in mooring and anchor appliances?  Set2 Is it company policy to use Pydraulic oil that is certified according to the EEL in mooring and anchor appliances?  Set2 Is it company policy to use Pydraulic oil that is certified according to the EEL in mooring and anchor appliances?  Set2 Is it company policy to use Pydraulic oil that is certified according to the EEL in mooring and anchor appliances?  Set2 Is it company policy to use Pydraulic oil that is certified according to the EEL in mooring and anchor appliances?  Set2 Is it company policy to use Pydraulic oil that is certified according to the EEL in mooring and anchor appliances?  Set2 Is it company policy to use Pydraulic oil that is certified according to the EEL in mooring and anchor appliances?  Set2 Is it company policy to use Pydraulic oil that is certified according to the EEL in mooring and anchor appliances?  Set2 Is it company policy to use Pydraulic oil that is certified according to the EEL in mooring a			CHECKLIST - RANKING CRITERIA - OFFICE AU	DIT	- B	ULI	K C	ARF	RIEI	R - V	'ER	SION	<b>1</b> 20	22										
S811.1 Is it company policy to use a mooring wire lubricant / grease that is certified according to the EEL?    Total score	Revision Code	Norm item		GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT. Doc. & Impl.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT. Doc. & Impl.	IT DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE RANKING SCORE	MAX.	
Total score   Deck equipment lubrication (use of oils)   S812.1   Is it company policy to use grease that is certified according to the EEL (all deck equipment)?   S812.2   Is it company policy to use gear oil that is certified according to the EEL (all deck equipment)?   S812.3   Is it company policy to use hydraulic oil that is certified according to the EEL in mooring and anchor appliances?   S812.4   Is it company policy to use hydraulic oil that is certified according to the EEL in mooring and anchor appliances?   S812.5   Is it company policy to use hydraulic oil that is certified according to the EEL in rane appliances?   S812.5   Is it company policy to use hydraulic oil that is certified according to the EEL in hatch closing system?   S812.5   Is it company policy to use hydraulic oil that is certified according to the EEL in hatch closing system?   S812.5   Is it company policy to use hydraulic oil that is certified according to the EEL in hatch closing system?   S812.5   Is it company policy to use hydraulic oil that is certified according to the EEL in hatch closing system?   S812.5   Is it company policy to use hydraulic oil that is certified according to the EEL in hatch closing system?   S812.5   Is it company policy to use hydraulic oil that is certified according to the EEL in hatch closing system?   S812.5   It is to company policy to use hydraulic oil that is certified according to the EEL in hatch closing system?   S812.5   It is to company policy to use hydraulic oil that is certified according to the EEL in hatch closing system?   Total score   O		5811	Mooring wire lubrication					0							0									
S812. Deck equipment lubrication (use of oils)  S812.1 Is it company policy to use grease that is certified according to the EEL (all deck equipment)?  S812.2 Is it company policy to use gear oil that is certified according to the EEL (all deck equipment)?  S812.3 Is it company policy to use hydraulic oil that is certified according to the EEL in morning and anchor appliances?  S812.4 Is it company policy to use hydraulic oil that is certified according to the EEL in crane appliances?  S812.5 Is it company policy to use hydraulic oil that is certified according to the EEL in rane appliances?  S812.6 Is it company policy to use hydraulic oil that is certified according to the EEL in hatch closing system?  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.)  Total score  O		5811.1	Is it company policy to use a mooring wire lubricant / grease that is certified according to the EEL?																			0	20	
Set2   Deck equipment lubrication (use of oils)						Mini	mum	rank	ina s	coro	ogui				11 - 0							0	20	4
S812.1 Is it company policy to use grease that is certified according to the EEL (all deck equipment)?  S812.2 Is it company policy to use gear oil that is certified according to the EEL (all deck equipment)?  S812.3 Is it company policy to use hydraulic oil that is certified according to the EEL in mooring and anchor appliances?  S812.4 Is it company policy to use hydraulic oil that is certified according to the EEL in crane appliances?  S812.5 Is it company policy to use hydraulic oil that is certified according to the EEL in rane appliances?  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.)  Total score  O 65  Minimum ranking score required for element 5812 = 0  S820.3 Is it company policy to ensure that all engine room personnel are familiar with the system layout, drawings and manuals?  S820.4 Is it company policy to ensure that all engine room personnel are familiar with the system layout, drawings and manuals?  Is it company policy to ensure that all engine room personnel are familiar with the system layout, drawings and manuals?  Is it company policy to include Sludge/Bilge and Soot collection tanks in the PMS for regular cleaning / inspection?  S820.6 Is it company policy to build vessels with bilge and sludge handling system in accordance with the MEPC.1/Circ. 642 guidelines?  Total score  Total score  Total score  O 5 5  S820.6 Is it company policy to build vessels with bilge and sludge handling system in accordance with the MEPC.1/Circ. 642 guidelines?		5812	Deck equipment lubrication (use of oils)			IVIIII	mun	1	ang s	Score	equi	irea ioi	leien	Henr 30		T								
Set12.2 Is it company policy to use gear oil that is certified according to the EEL (all deck equipment)?  Set12.3 Is it company policy to use hydraulic oil that is certified according to the EEL in mooring and anchor appliances?  Set12.4 Is it company policy to use hydraulic oil that is certified according to the EEL in rorane appliances?  Set12.5 Is it company policy to use hydraulic oil that is certified according to the EEL in hatch closing system?  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.)  Set20.5 Management of bilge water and sludge handling onboard  Set20.3 Is it company policy to familiarize engine room personnel with on board sludge and bilge water management procedures?  Is it company policy to femiliarize engine room personnel are familiar with the system layout, drawings and manuals?  Is it company policy to include Sludge/Bilge and Soot collection tanks in the PMS for regular cleaning/ inspection?  Set20.6 Is it company policy to build vessels with bilge and sludge handling system in accordance with the MEPC.1/Circ. 642 guidelines?  Total score  Total score  0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			· · · · · · · · · · · · · · · · · · ·								1											0	15	
Set 12.3 Is it company policy to use hydraulic oil that is certified according to the EEL in moring and anchor appliances?  Set 12.4 Is it company policy to use hydraulic oil that is certified according to the EEL in crane appliances?  Set 12.5 Is it company policy to use hydraulic oil that is certified according to the EEL in hatch closing system?  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.)  Set 12.6 Management of bilge water and sludge handling onboard  Set 12.6 Is it company policy to familiarize engine room personnel with on board sludge and bilge water management procedures?  Set 12.6 Is it company policy to familiarize engine room personnel are familiar with the system layout, drawings and manuals?  Set 20.5 Is it company policy to include Sludge/Bilge and Soot collection tanks in the PMS for regular cleaning / inspection?  Set 20.6 Is it company policy to build vessels with bilge and sludge handling system in accordance with the MEPC.1/Circ. 642 guidelines?  Total score  Total score  Total score  Total score  Total score  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0											f											0	10	1
S812.5   Is it company policy to use hydraulic oil that is certified according to the EEL in hatch closing system?   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.)   Total score   0   65		5812.3	Is it company policy to use hydraulic oil that is certified according to the EEL in mooring and																			0	10	1
System?  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.)  Total score  O 65  Minimum ranking score required for element 5812 = 0  S820. Management of bilge water and sludge handling onboard  Is it company policy to familiarize engine room personnel with on board sludge and bilge water management procedures?  Is it company policy to ensure that all engine room personnel are familiar with the system layout, drawings and manuals?  Is it company policy to include Sludge/Bilge and Soot collection tanks in the PMS for regular cleaning / inspection?  Is it company policy to build vessels with bilge and sludge handling system in accordance with the MEPC.1/Circ. 642 guidelines?  Total score  Total score  Total score  O 55		5812.4	Is it company policy to use hydraulic oil that is certified according to the EEL in crane appliances?																			0	10	
taken into account for the applicable system if needed? (e.g. condition of seals & filters, temperature & condition of oil, prevention of humidity ingress etc.)    Total score		5812.5																				0	10	
Minimum ranking score required for element 5812 = 0		5812.6	taken into account for the applicable system if needed? (e.g. condition of seals & filters,																			0	10	
Management of bilge water and sludge handling onboard  Is it company policy to familiarize engine room personnel with on board sludge and bilge water management procedures?  Is it company policy to ensure that all engine room personnel are familiar with the system layout, drawings and manuals?  Is it company policy to include Sludge/Bilge and Soot collection tanks in the PMS for regular cleaning / inspection?  Is it company policy to build vessels with bilge and sludge handling system in accordance with the MEPC.1/Circ. 642 guidelines?  Total score						Mini		ronk	dna c						112 – 0							0	65	7
5820.3 Is it company policy to familiarize engine room personnel with on board sludge and bilge water management procedures?  5820.4 Is it company policy to ensure that all engine room personnel are familiar with the system layout, drawings and manuals?  5820.5 Is it company policy to include Sludge/Bilge and Soot collection tanks in the PMS for regular cleaning / inspection?  5820.6 Is it company policy to build vessels with bilge and sludge handling system in accordance with the MEPC.1/Circ. 642 guidelines?  Total score  Total score		5820	Management of bilge water and sludge handling onboard				mun	1	ung s						12 = 0	T								
drawings and manuals?    S820.4   drawings and manuals?   0   5		5820.3	Is it company policy to familiarize engine room personnel with on board sludge and bilge water																			0	10	1
cleaning / inspection?  Is it company policy to build vessels with bilge and sludge handling system in accordance with the MEPC.1/Circ. 642 guidelines?  Total score  Total score		5820.4																				0	5	
MEPC.1/Circ. 642 guidelines?   U   5		5820.5																				0	5	
		5820.6																				0	5	
						B. O. San Co.									200 4	-						0	25	_

RANKING Office - Bulk  Sez! Outfitting of bilge water system  A. Clean Drains (Drains that are normally not contaminated by oil)  Sez! Does the company have a policy that bilge water from the Clean drain tank (for the collection of clean drains) are per MPC-1. Circ. 642) in the engine room logbook?  B. Soot Collection Tank arrangement  Are management instructions regarding disposal of soot and soot-water mixtures available ontoward of sheep exception of the Clean drains are applied with a start of the collection of the collectio			CHECKLIST - RANKING CRITERIA - OFFICE AU	DIT	- B	ULI	K C	AR	RIE	۲ - ۱	VER	SIOI	N 20	22									
A. Clean Drains (Drains that are normally not contaminated by oil)  5821.1 Does the company have a policy that bilge water from the Clean drain tank (for the collection of clean drains", as per MEPC.1/Circ.642) passes through 15 ppm oil content meter and alarm?  5821.17 Does the company have a policy of logging discharges from the Clean drain tank (tank used for the collection of 'clean drains", as per MEPC.1/Circ.642) in the engine room logbook?  8. Soot Collection Tank arrangement  5821.2 Are management instructions regarding disposal of soot and soot-water mixtures available onboard for ships equipped with Soot separation / collection tank?  C. Oily bilge water tank arrangement  5821.4 Is it company policy to install Clean Water Tank (to enable Oily Bilge Water to be processed while in port and special areas)?  Is it company policy to install Clean Water Tank (to enable Oily Bilge water holding tank through the Oily Water Separator to the Clean water tank (rather than overboard discharge)?  O. Oily water separator / Oil content meter  NA for vessels keel laid after 2005  Is it company policy to install an oil content meter with an automatic stopping device capable of measuring the difference in enuisitying particles and oil, as per IMO resolution MEPC.107(49)  Are instructions available in the management system to avoid that the Oil Content Meter is flushed/diluted with clean water during Oily Water Separator or a protection system installed (e.g. White Box) to prevent illegal discharges of bilge water from machinery spaces?  NA for vessels keel laid after 2005  Is it company policy to equip the Oily Water Separator or equipment or a protection system installed (e.g. White Box) to prevent illegal discharges of bilge water from machinery spaces?  NA for vessels keel laid after 2005  Is it company policy to equip the Oily Water Separator equipment or a protection system installed (e.g. White Box) to prevent illegal discharges of bilge water from machinery spaces?  NA for vessels keel laid after 2005  Is it com	Revision Code	Norm item		GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT.	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	
5821.1 Does the company have a policy that bilge water from the Clean drain lank (for the collection of clean drains', as per MEPC. (Circ. 642) passes through 15 ppm oil content meter and alarm?  5821.17 Does the company have a policy of logging discharges from the Clean drain tank (tank used for the collection of 'clean drains', as per MEPC. (Circ. 642) in the engine room logbook?  8. Soot Collection Tank arrangement  5821.2 Are management instructions regarding disposal of soot and soot-water mixtures available onboard for ships equipped with Soot separation / collection tank?  C. Oily bilge water tank arrangement  5821.4 Is it company policy to install Clean Water Tank (to enable Oily Bilge Water to be processed while in port and special areas)?  5821.5 Is it company policy to pump Oily bilge water from the Oily bilge water though the Oily Water Separator to the Clean water tank (rather than overboard discharge)?  D. Oily water separator to the Clean water tank (rather than overboard discharge)?  5821.6 Is it company policy to install an oil content meter with an automatic stopping device capable of measuring the difference in emulsilying particles and oil, as per IMO resolution MEPC.107(49)  Are instructions available in the management system to avoid that the Oil Content Meter is fushed/diluted with clean water during Oily Water Separator or a nequipment or a protection system installed (e.g. White Box) to prevent illegal discharges of bilge water from machinery spaces?  N/A for vessels keel laid after 2005  S821.8 Is it company policy to equip the Oily Water Separator or with a re-circulating facility for testing purposes as per IMO resolution MEPC.107(49) 6.1.1.?  S821.9 Is an alternative to 5821.1.5 5821.8 & 5821.17 (all the above)		5821	Outfitting of bilge water system			0		0		0		0	0										
Sez1.17 Clean drains", as per MEPC.1/Circ.642) passes through 15 ppm oil content meter and alarm?  Does the company have a policy of logging discharges from the Clean drain tank (tank used for the collection of 'clean drains', as per MEPC.1/Circ.642) in the engine room logbook?  B. Soot Collection Tank arrangement  Are management instructions regarding disposal of soot and soot-water mixtures available onhoard for ships equipped with Soot separation / collection tank?  C. Oily bilge water tank arrangement  Is it company policy to install Clean Water Tank (to enable Oily Bilge Water to be processed while in port and special areas)?  Is it company policy to pump Oily bilge water from the Oily bilge water thodding tank through the Oily Water Separator to the Clean water tank (trafter than overboard discharge)?  D. Oily water separator / Oil content meter  WA for vessels keel laid after 2005  Is it company policy to install an oil content meter with an automatic stopping device capable of measuring the difference in emulsifying particles and oil, as per IMO resolution MEPC.107(49)  Are instructions available in the management system to avoid that the Oil Content Meter is flushed/diluted with clean water flushed properties of side and oil, as per IMO resolution MEPC.107(49)  Sez1.8 WA for vessels keel laid after 2005  Is it company policy to installed (e.g. White Box) to prevent illegal discharges of bilge water from machinery spaces?  NA for vessels keel laid after 2005  Is it company policy to equip the Oily Water Separator with a re-circulating facility for testing purposes as per IMO resolution MEPC.107(49) 6.1.1.?  Sez1.9 Is an alternative to 5821.1 - 5821.8 & 5821.17 (all the above)			A. Clean Drains (Drains that are <u>normally not</u> contaminated by oil)																				
the collection of 'clean drains', as per MEPC.1/Circ.642) in the engine room logbook?  B. Soot Collection Tank arrangement  Are management instructions regarding disposal of soot and soot-water mixtures available onboard for ships equipped with Soot separation / collection tank?  C. Oily bilge water tank arrangement  S821.4 Is it company policy to install Clean Water Tank (to enable Oily Bilge Water to be processed while in port and special areas)?  Is it company policy to pump Oily bilge water from the Oily bilge water holding tank through the Oily Water Separator to the Clean water tank (arther than overboard discharge)?  D. Oily water separator / Oil content meter  NA for vessels keel laid after 2005  Is it company policy to install Clean Water and in a uncomatic stopping device capable of measuring the difference in emulsifying particles and oil, as per IMO resolution MEPC.107(49)  Are instructions available in the management system to avoid that the Oil Content Meter is flushed/diluted with clean water during Oily Water Separator operation or is an equipment or a protection system installed (e.g. White Box) to prevent illegal discharges of bilge water from machinery spaces?  NA for vessels keel laid after 2005  Is it company policy to equip the Oily Water Separator with a re-circulating facility for testing purposes as per IMO resolution MEPC.107(49) 6.1.1.?  NA for vessels keel laid after 2005  Is it company policy to equip the Oily Water Separator with a re-circulating facility for testing purposes as per IMO resolution MEPC.107(49) 6.1.1.?  S821.9 Is an alternative to 5821.1 - 5821.8 & 5821.17 (all the above)  S821.9 Is a company policy to always deliver all bilge water to reception facilities?  Total score		5821.1	"clean drains", as per MEPC.1/Circ.642) passes through 15 ppm oil content meter and alarm?																			0	5
S821.2 Are management instructions regarding disposal of soot and soot-water mixtures available onboard for ships equipped with Soot separation / collection tank?  C. Oily bilge water tank arrangement  S821.4 Is it company policy to install Clean Water Tank (to enable Oily Bilge Water to be processed while in port and special areas)?  Is it company policy to pump Oily bilge water from the Oily bilge water holding tank through the Oily Water Separator to the Clean water tank (rather than overboard discharge)?  D. Oily water separator / Oil content meter  NA for vessels keel laid after 2005 Is it company policy to install an oil content meter with an automatic stopping device capable of measuring the difference in emulsifying particles and oil, as per IMO resolution MEPC.107(49)  Are instructions available in the management system to avoid that the Oil Content Meter is flushed/diluted with clean water during Oily Water Separator operation or is an equipment or a protection system installed (e.g. White Box) to prevent illegal discharges of bilge water from machinery spaces?  N/A for vessels keel laid after 2005 Is it company policy to equip the Oily Water Separator with a re-circulating facility for testing purposes as per IMO resolution MEPC.107(49) 6.1.1.?  S821.9 Is an alternative to 5821.1 - 5821.8 & 5821.17 (all the above)  S821.9 Is it a company policy to always deliver all bilge water to reception facilities?  Total score  Total score  Total score		5821.17																				0	5
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Water Separator to the Clean water tank (rather than overboard discharge)?  D. Oily water separator / Oil content meter    N/A for vessels keel laid after 2005   Si it company policy to install an oil content meter with an automatic stopping device capable of measuring the difference in emulsifying particles and oil, as per IMO resolution MEPC.107(49)  Are instructions available in the management system to avoid that the Oil Content Meter is flushed/diluted with clean water during Oily Water Separator operation or is an equipment or a protection system installed (e.g. White Box) to prevent illegal discharges of bilge water from machinery spaces?    M/A for vessels keel laid after 2005   Si it company policy to equip the Oily Water Separator with a re-circulating facility for testing purposes as per IMO resolution MEPC.107(49) 6.1.1.?    S821.9   Is an alternative to 5821.1 - 5821.8 & 5821.17 (all the above)		5821.4																				0	10
N/A for vessels keel laid after 2005   Is it company policy to install an oil content meter with an automatic stopping device capable of measuring the difference in emulsifying particles and oil, as per IMO resolution MEPC.107(49)   Are instructions available in the management system to avoid that the Oil Content Meter is flushed/diluted with clean water during Oily Water Separator operation or is an equipment or a protection system installed (e.g. White Box) to prevent illegal discharges of bilge water from machinery spaces?   N/A for vessels keel laid after 2005   Is it company policy to equip the Oily Water Separator with a re-circulating facility for testing purposes as per IMO resolution MEPC.107(49) 6.1.1.?   S821.9   Is it a company policy to always deliver all bilge water to reception facilities?   Total score   Total sc		5821.5																				0	5
Sez1.6   Is it company policy to install an oil content meter with an automatic stopping device capable of measuring the difference in emulsifying particles and oil, as per IMO resolution MEPC.107(49)   Are instructions available in the management system to avoid that the Oil Content Meter is flushed/diluted with clean water during Oily Water Separator operation or is an equipment or a protection system installed (e.g. White Box) to prevent illegal discharges of bilge water from machinery spaces?   NA for vessels keel laid after 2005   Is it company policy to equip the Oily Water Separator with a re-circulating facility for testing purposes as per IMO resolution MEPC.107(49) 6.1.1.?   Sez1.9 is an alternative to 5821.1 - 5821.8 & 5821.17 (all the above)   Is it a company policy to always deliver all bilge water to reception facilities?   Total score   Tota			D. Oily water separator / Oil content meter																				-
flushed/diluted with clean water during Oily Water Separator operation or is an equipment or a protection system installed (e.g. White Box) to prevent illegal discharges of bilge water from machinery spaces?    N/A for vessels keel laid after 2005   Is it company policy to equip the Oily Water Separator with a re-circulating facility for testing purposes as per IMO resolution MEPC.107(49) 6.1.1.?    S821.9   Is it a company policy to always deliver all bilge water to reception facilities?   Is it a company policy to always deliver all bilge water to reception facilities?   Is it a company policy to always deliver all bilge water to reception facilities?   Is it a company policy to always deliver all bilge water to reception facilities?   Is it a company policy to always deliver all bilge water to reception facilities?   Is it a company policy to always deliver all bilge water to reception facilities?   Is it a company policy to always deliver all bilge water to reception facilities?   Is it a company policy to always deliver all bilge water to reception facilities?   Is it a company policy to always deliver all bilge water to reception facilities?   Is it a company policy to always deliver all bilge water to reception facilities?   Is it a company policy to always deliver all bilge water to reception facilities?   Is it a company policy to always deliver all bilge water to reception facilities?   Is it a company policy to always deliver all bilge water to reception facilities?   Is it a company policy to always deliver all bilge water to reception facilities?   Is it a company policy to always deliver all bilge water to reception facilities?   Is it a company policy to always deliver all bilge water to reception facilities?   Is it a company policy to always deliver all bilge water to reception facilities?   Is it a company policy to always deliver all bilge water to reception facilities?   Is it a company policy to always deliver all bilge water to reception facilities?   Is it a company policy to always deliv		5821.6	Is it company policy to install an oil content meter with an automatic stopping device capable of																			0	5
5821.8 Is it company policy to equip the Oily Water Separator with a re-circulating facility for testing purposes as per IMO resolution MEPC.107(49) 6.1.1.?  5821.9 Is an alternative to 5821.1 - 5821.8 & 5821.17 (all the above)  5821.9 Is it a company policy to always deliver all bilge water to reception facilities?  Total score  0 50		5821.7	flushed/diluted with clean water during Oily Water Separator operation or is an equipment or a protection system installed (e.g. White Box) to prevent illegal discharges of bilge water from									_										0	10
5821.9 Is it a company policy to always deliver all bilge water to reception facilities?  Total score  0 50		5821.8	Is it company policy to equip the Oily Water Separator with a re-circulating facility for testing																			0	5
Total score 0 50			5821.9 is an alternative to 5821.1 - 5821.8 & 5821.17 (all the above)																				
		5821.9	Is it a company policy to always deliver all bilge water to reception facilities?																			0	50
				Total score 0 50																			

		CHECKLIST - RANKING CRITERIA - OFFICE AU	DIT -	BU	ILK (	CAF	RRIE	R -	VER	RSIO	N 20	22									
Revision Code	Norm item	RANKING Office - Bulk	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT. Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	Doc. & Impl.	INS- / CLAIM DEPT.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	5822	Outfitting of sludge handling system		•	0	0	)	0			0										
	5822.1	Is it company policy to install a sludge collecting pump as per MEPC.1/Circ.642? (with the sole purpose of collecting the sludge from different ER tanks to the Oil Residue (Sludge) Tank)?																		0	5
	5822.2	Is it company policy to install a separate sludge discharge pump with the purpose of discharging the sludge to reception facility?																		0	5
	5822.3	Is it company policy to improve the efficiency and capacity of the sludge handling system by installing: - a tank or system with the sole purpose of removing large quantities of water from the sludge? - a separate tank or system with the sole purpose of evaporating water from the sludge? - a separate tank or system with the purpose of mixing the sludge while incinerated (in incinerator or boiler)																		0	5
	5822.6	Is it a company selection process to assign ships that always deliver all sludge to reception facilities?																		0	5
		company policy to install a sludge collecting pump as per MEPC.1/Circ.642? (with the sole pose of collecting the sludge from different ER tanks to the Oil Residue (Sludge) Tank)?  company policy to install a separate sludge discharge pump with the purpose of discharging sludge to reception facility?  company policy to install a separate sludge discharge pump with the purpose of discharging sludge to reception facility?  company policy to install a separate sludge discharge pump with the purpose of discharging sludge to reception facility?  company policy to improve the efficiency and capacity of the sludge handling system by alling:  cambar to system with the sole purpose of removing large quantities of water from the sludge? separate tank or system with the purpose of evaporating water from the sludge? separate tank or system with the purpose of mixing the sludge while incinerated (in incinerator coller)  a company selection process to assign ships that always deliver all sludge to reception littles?  Total score  Minimum ranking score required for element 5822 = 10  P Recycling - Inventory of Hazardous Materials  by buildings - For Owner / Managers and 3rd-party Ship Managers  5900.1, 5900.12 and 5900.2  so the company require the shipyard to develop an "Inventory of Hazardous Materials" (Part I) se stage of design and/or construction? (requirement to be part of the building contract)  so the company require the shipyard to have procedures to require equipment-/machiney- pliers to provide a "Material the shipyard to include in these procedures that the "Material shartation" contains information on the safe removal of hazardous materials? (requirement to be for the building contract)  so the company require the shipyard to include in these procedures that the "Material shartation" contains information on the safe removal of hazardous materials? (requirement to be for the building contract)  so the company require the shipyard to include in these procedures that the "Material shartation" contains information on															0	20			
	5900	Ship Recycling - Inventory of Hazardous Materials	0	_		_	Ť														
		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

Ship Recycling - Policy for ships due to be recycled  For Owner / Managers only (Not applicable to 3rd-party ship managers)  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)?  Has a company procedure been implemented within the Management System to audit a recycling	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
For Owner / Managers only (Not applicable to 3rd-party ship managers)  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)?  Has a company procedure been implemented within the Management System to audit a recycling			
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)?  Has a company procedure been implemented within the Management System to sudit a recycling.			$\overline{}$
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)?  Has a company procedure been implemented within the Management System to audit a recycling			
Has a company procedure been implemented within the Management System to audit a recycling		0	20
facility before concluding a "contract of sale"?		0	10
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
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
(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
(Preparation of vessel before delivery) Has a company procedure been implemented to clearly  5910.7 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			
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
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
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  Minimum ranking score required for element 5910 = 60		0	140

		CHECKLIST - RANKING CRITERIA - OFFICE AU	DIT -	BU	LK C	AR	RIE	R - \	/ERS	SION	2022									
Revision Code	Norm item	RANKING Office - Bulk	GENERAL MAN.	Doc. & Impl. QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	Doc. & Impl.	OPER./CHART DEPT.	Doc. & Impl. PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	IT DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	RANKING SCORE	RANKING MAX. SCORE
	6000	MAINTENANCE / SURVEYS																		
	6100	Programme of Inspections & Cargo Hold Inspection / Maintenance				0		0												
	6100.1	Has the company developed an internal technical inspection programme?																	0	10
	6100.2	Does the company have relevant previous survey and internal technical inspection reports?																	0	10
	6100.3	Does the company have a repair history on each vessel?																	0	10
	6100.4	Does the company have procedures/instructions for hull / ship's construction condition-inspections to be carried out by ship's personnel?																	0	20
	6100.6	Does the company have information regarding the relevant maintenance level of the vessel?																	0	10
	6100.7	Is an owner's inspection report available?																	0	10
	6100.8	Is it company policy that inspections of cargo holds are conducted before and after all unloading operations?																	0	20
	6100.9	Is the restoration of damage to hold coatings caused by cargo operations included in the planned maintenance scheme?																	0	20
				laa:							tal sco	re t 6100 =	00						0	110
	6110	Critical and Stand-by Equipment	0	IVII	_	o rank	king s	core	requir	ea for (	eiemen	1 6100 =	= 80							
	6110.1	Is the risk assessment carried out in order to create a list of critical equipment for every ship after intermediate survey (at least every 2.5 years)?																	0	10
	6110.2	Does the list of critical equipment include and specify stand-by equipment for every ship?																	0	10
	6110.3	Is the feedback from the ship considered in the process of creating a list of critical equipment? (eg. PMS reports)																	0	10
	6110.4	Is it company policy to categorize the ship into departments as per TMSA (OCIMF) in the process of creating a list of critical equipment?																	0	5
	6110.5	Is it company policy to install a Computer Based Program to register failures, break downs and near misses in order to have a constant event report on the systems?																	0	10
	6110.6	Are those event reports considered in creating a list of critical equipment?																	0	10
	6110.7	Is it company policy to install a Computer Based Program for spare parts management of critical equipment and stand-by equipment?																	0	10
	6110.8	Is it company policy to have safety stock inventory reports for critical equipment and stand-by equipment?																	0	10
				la							tal sco		00						0	75
				Mi	nimun	n rank	king s	core	requir	ed for	elemen	t 6110 =	= 30							

	6200. Mooring Equipment  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).  6200.2 Does the company provide the ship with a winch brake test kit?  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)  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?  6200.11 Are the lubricants & cleaning products compatible with the wire and approved by the wire manufacturer?  8200.6 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)																				
Revision Code	Norm item		GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.  Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT. Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT. Doc. & Impl.	IT DEPT. Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE RANKING SCORE		
	6200	Mooring Equipment					0						0								
	6200.1																		0	10	)
	6200.2	1 21 1																	0	5	
	6200.5	established and carried out by a competent person? (time interval for inspection should be in the																	0	10	י
	6200.8	Do these criteria take manufacturer's recommendations into account ?																	0	10	)
	6200.9	periods of inactivity, excessive loads, heat exposure, loading/discharge at swell ports, etc?																	0	5	
	6200.10																		0	10	)
	6200.11																		0	5	
	6200.6																		0	10	נ
	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	
				_	Minim	um r	ankina	score	o rogi			score ement 62	200 - 4	15					0	75	<u> </u>
	6300	Corrosion Prevention of Seawater Ballast Tanks				_	o l	3001	requ	an ea r	OI CIC	ment o		T							
	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	
	ĺ			Does the company require the corrosion prevention system to be part of the vessel maintenance system?													75	5			

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Revision Code	Norm item	RANKING Office - Bulk	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT.	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
	6400	Condition Assessment Program, Maintenance Additional Green Award requirements	0				0																
		For Owner/Managers																					
	6400.1	Is it company policy that a condition assessment for <u>Hull</u> will be carried out on vessels more than 15 years old, or by the end of the 3rd special survey, whichever is earlier?																				0	25
	6400.8	Is it company policy that a condition assessment for <u>Cargo Systems</u> will be carried out on vessels more than <u>15 years old</u> , or by the <u>end of the 3rd special survey</u> , whichever is earlier?																				0	20
	6400.9	Is it company policy that a condition assessment for <u>Machinery</u> will be carried out on vessels more than <u>15 years old</u> , or by the <u>end of the 3rd special survey</u> , whichever is earlier?																				0	20
		6400.10, 6400.11 & 6400.12 are alternatives to 6400.1, 6400.8 & 6400.9 For 3rd-party Ship Managers																					
	6400.10	Is it company policy to request ship owners to carry out condition assessment for <u>Hull</u> on vessels more than <u>15 years old</u> , or by the <u>end of the 3rd special survey</u> , whichever is earlier?																				0	25
	6400.11	Is it company policy to request ship owners to carry out condition assessment for <u>Cargo Systems</u> on vessels more than 15 years old, or by the end of the 3rd special survey, whichever is earlier?																				0	20
	6400.12	Is it company policy to request ship owners to carry out condition assessment for <u>Machinery</u> on vessels more than <u>15 years old</u> , or by the end of the <u>3rd special survey</u> , whichever is earlier?																				0	20
	6400.3	Is it company policy that maintenance meetings are carried out on board? (e.g. each month and at (all) sections on board)																				0	10
	6400.4	Is a maintenance checklist used regarding the (monthly) maintenance inspection?																				0	10
	6400.5	Is an evaluation report of vessel's performance sent to the company?																				0	20
	6400.6	Is an annual technical report made by the Company's superintendent?																				0	15
					Ina:							otal s		400								0	120
	6600	Bulk Carrier Practice			wiini		rank	king s	core	requ	rea to	r elen	ient 6	400 =	<b>0</b> 0								
	6600.1	Does the company provide sufficient spare parts for deck maintenance on board? ( rubber gaskets, fittings, cleats etc.)					•															0	20
	6600.2	Is the number of spare parts required increasing as the ship grows older?															1		-			0	20
		and the state of t									1	otal s	core								1	0	40
					Min	mum	rank	king s	core	requi	red fo	r elen	nent 6	600 =	40								

		CHECKLIST - RANKING CRITERIA - OFFICE AU	IDIT	- B	ULK	C	ARRIE	R -	VER	SION	V 202	2									
Revision Code	Norm item	RANKING Office - Bulk	GENERAL MAN.		EPT.		TECHNICAL DEPT.  Doc. & Impl.	EPT.	T	PERSONNEL DEPT. Doc. & Impl.	₹T DEPT.		PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT. Doc. & Impl.	ІТ DEPT.	Doc. & Impl.	INS-/CLAIM DEPT.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	7000	CREW																			
	7100	Employment of Personnel							•	•											
	7100.1	Is it company policy to employ all ship-personnel on a permanent basis?																		0	30
		Alternatives for 7100.1																			
	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
					Minin	um	ranking	ccore	roqui		otal so		00 - 0							0	30
	7200	Extra Personnel, Additional Green Award Requirement				Iuiii	O	30016		0	Cicin	, n. 7 i	00 = 0								
	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
ļ					Minim		ranking				otal so		00 44	_						0	80

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Revision Code	Norm item	RANKING Office - Bulk	GENERAL MAN.	Doc. & Impl.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT. Doc. & Impl.	FINANCIAL DEPT.	IT DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	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 s personnel?																	0	10
	7300.21	Does the company provide "Marine Environmental Awareness" course (IMO 1.38) to the technical superintendents?																	0	5
	7300.22	Does the company provide "Marine Environmental Awareness" (IMO 1.38) to the HSQE manager ?																	0	5
	7300.8	Does the company provide bridge team management/ bridge resource management training / course for all deck officers (IMO 1.22) ?																	0	5
	7300.19	Does the company provide engine room resource management training/courses for all engine officers ?																	0	5
	7300.20	Alternative for 7300.8 & 7300.19  Does the company provide maritime resource management course for all officers?																	0	10
	7300.9	Does the company have a structured program for refresher and updated training of company related courses at suitable intervals for office and shipboard personnel?																	0	15
	7300.10	Is it company policy to employ cadets by providing training and education in order to recruit future officers?																	0	15
	7300.14	Does the company have a system in place to monitor officers' competence, training, time in rank and use it as a basis for promotion?																	0	10
	7300.15	Is the system as meant in 7300.14 audited and certified by an IACS member classification society?																	0	20
	7300.17	Is it company policy that all the officers are to complete Security Awareness Training?																	0	5
<b> </b>				M	inimu	m ran	nking	score	requi		otal s		300 = 50						0	130

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Revision Code	Norm item	RANKING Office - Bulk	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.	<u> </u>	FINANCIAL DEPT.  Doc. & Impl.	IT DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	7400	Familiarisation, Additional Green Award Requirement							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?											Ť		Ċ		Ċ						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?											al sco										0	10
					Mini	mum	n rank	king s	score	requ	ired		lemen		0 = 50	1							U	80
	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	L						_			_												_
	7500.7	Does the company have a system 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	Does the company conduct fatigue management training and awareness campaigns for shipboard crew on an initial and recurrent basis?																					0	5
					Mini	mirr	ront	dna -	20075	ro~	ired		al sco		0 - 60								0	95
		1	<u> </u>		WIIIIII	mum	rank	ung s	score	requ	ired	ior e	iemen	ι / 50	0 = 60	1								

		CHECKLIST - RANKING CRITERIA - OFFICE AU	DIT ·	- B	ULK	CA	RRI	ER -	VE	RSIO	N 20	022										
Revision Code	Norm item	RANKING Office - Bulk	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	T DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE RANKING SCORE	RANKING MAX. SCORE	
	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	T
	9421.8	Is the company certified for the latest edition of ISO 50001 (energy management systems)?																		0	10	Т
	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	
					B/I::		andde:					score ment 9	404	^						0	95	4

	CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - BULK CARRIER - VERSION 202	22			
Norm item	TOTAL SCORE REVIEW OFFICE AUDIT - BULK CARRIER	OFFICE 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	
1600	Computer Systems, Networks, Data Security and Training	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	
2110	Electronic chart display & information systems / ECDIS	0	0	0	
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	60	20	
4601	Preparation of loading / unloading plan	0	80	80	
4602	Cargo handling and operations	0	50	40	
4606	Safety precautions during cargo operations	0	20	20	
5000	PREVENTION OF POLLUTION				
5100	Biofouling Management	0	30	5	
5200	Waste Management / Garbage Handling Onboard	0	100	50	
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	
5500	Sewage Management	0	50	20	

	CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - BULK CARRIER - VERSION 202	22			
Norm item	TOTAL SCORE REVIEW OFFICE AUDIT - BULK CARRIER	OFFICE RANKING SCORE	MAXIMUM OBTAINABLE RANKING SCORE	MINIMUM RANKING SCORE REQUIRED	ELEMENTS WITH NO MINIMUM SCORE
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	65	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 & Cargo Hold Inspection / Maintenance	0	110	80	
6110	Critical and Stand-by Equipment	0	75	30	
6200	Mooring Equipment	0	75	45	
6300	Corrosion Prevention of Seawater Ballast Tanks	0	75	40	
6400	Condition Assessment Program, Maintenance Additional Green Award requirements	0	120	60	
6600	Bulk Carrier Practice	0	40	40	
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	130	50	
7400	Familiarisation, Additional Green Award Requirement	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	3590	1510	

#### LEGEND

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

<sup>\*</sup> 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".

#### **SUPPLEMENT TO 5440 GHG EMISSIONS - CO2**

GA Code:

# **ENERGY EFFICIENCY TECHNOLOGIES INFORMATION PORTAL**

TECHNOLOGY GROUPS Certificate Holder name:

IMO GLOMEEP Website 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 autotuning, 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

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#### **SUPPLEMENT TO 5440 GHG EMISSIONS - CO2**

# 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.

Υ?	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.

Υ?	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

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#### **SUPPLEMENT TO 5440 GHG EMISSIONS - CO2**

### **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
	<u>Kite</u>	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.

Υ?	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.

Proven, new or existing technology/principle, but with limited uptake across the Semi-mature

industry.

Not mature New unproven-, unproven existing- , or proven existing technology/principle but

with very few installations and little to no operational experience.

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View disclaimer

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<sup>\*</sup>This Information Portal is still under development and further images will be added.

# **APPENDIX 3**

CHECKLIST - BASIC CRITERIA - SURVEY - BULK CARRIER

(BMC-08)

		CHECKLIST - BASIC CRITERIA - SHIP SURVEY - BULK CA	ARR	IER	- V	ERS	1018	<b>1</b> 20	22										
Revision Code	Norm item	BASIC Ship - Bulk	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	0																
	101.1	Are the Management System (MS) Manuals maintained and updated?																	
	102	SAFETY AND ENVIRONMENTAL PROTECTION POLICY	0		0		0		0		0		0		0		0		
	102.1	Is the company policy concerning safety and the environment available, posted and implemented at all levels?																	
	103	COMPANY RESPONSIBILITIES AND AUTHORITY	0		0		0		0		0		0		0		0		
	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	0		0		0		0		0		0		0		0		
	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	0																
	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?																$\dashv$	
	105.5	Does the master review the MS and are its deficiencies reported to the shore-based management?										_							
	106	RESOURCES AND PERSONNEL AND STCW	0								0								
	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?											<b></b>						
	106.4	Are shipboard personnel informed about new/revised rules, regulations, codes and guidelines?																$\perp \!\!\! \perp$	
	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?								_								4	
	106.12	Are all senior and deck officers conversant in the English language for maritime communication?								_								4	
	106.13	Is relevant information on the MS written in a working language or languages understood by officers and shipboard personnel?																$\perp$	
	106.14	Is the working language monitored and checked by the ships 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 - BULK CA	ARR	IER	- VI	ERS	IOI	N 20	22										
Revision Code	Norm item	BASIC Ship - Bulk	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	NOT APPLICABLE	
	107	DEVELOPMENT OF PLANS FOR SHIPBOARD OPERATIONS	0		0						0						0		Ī
	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	0		0		0		0		0		0		0		0		
	108.1	Does the system cover the arrangements needed to ensure that the company, day and night, can be notified if a hazard, accident or emergency involving the ship occurs?																	
	108.2	Are tasks, qualifications and responsibilities evaluated during drills and exercises as described in the emergency procedures?																	
	108.3	Is communication with media described in the emergency procedures and is shipboard personnel aware of these instructions?																	
	108.5	Is the shipboard personnel prepared to respond to emergency shipboard situations?												1					
	109	REPORTS AND ANALYSES OF NON-CONFORMATIES, ACCIDENTS AND HAZARDOUS OCCURENCES	0		0						0						0		
	109.1	Are safety and environmental inspections carried out, documented and reported?																	
	109.2	Does the ship have instructions/procedures for the reporting of non-conformities/ near misses?																	
	109.3	Are non-conformities, accidents and hazardous occurrences reported to the office?																	
	109.4	Are corrective and/or preventive actions taken?																	
	109.5	Does the company have objective evidence to show their support of the shipboard personnel in reporting of non-conformities / near misses?																	
	110	MAINTENANCE OF THE SHIP AND EQUIPMENT	0		0						0						0		
	110.1	Are ship inspections held at defined intervals? (minimum of twice a year or equivalent)																	
	110.2	Are non-conformities reported including their possible cause?																	
	110.3	Is appropriate corrective action taken?																	
	110.4	Are records of these activities maintained?																	
	110.5	Are ship-critical equipment and technical systems identified ?																	
	110.6	Does the MS provide for specific measures aimed at promoting the reliability of critical equipment and systems?																	
	111	DOCUMENTATION	0		0						0								
	111.1	Does the company have procedures to control documents and data relevant to the MS?																	
	111.2	Are valid documents available at all relevant locations?																	
	111.3	Are changes to documents reviewed and approved by authorised personnel?																	
	111.4	Are obsolete documents promptly removed ?																	

		CHECKLIST - BASIC CRITERIA - SHIP SURVEY - BUL	K CAR	RIEF	R - V	ERS	1018	N 20	22										
Revision Code	Norm item	BASIC Ship - Bulk	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.	
	112	COMPANY VERIFICATION, REVIEW AND EVALUATION	O		0						0								
	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	O								0								
	201.1	Compliance with General Provisions																	
	211	Enhanced Surveys	O								0								
	211.1	Is an enhanced survey performed and endorsed by a Classification Society?																	
	213	Certificates and documents on board	C								0								
	213.1	Are all regulatory certificates valid?																	
	200	SOLAS 1974																	
	215	Additional Safety Measures for Bulk Carriers	O		0														
	215.1	Does the bulk carrier comply with the requirements of Ch. XII?															•		
	216	Maritime security	0	)															
	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 - BULK CA	ARR	IER	- VI	ERS	1018	<b>1</b> 20	22								
Revision Code	Norm item	BASIC Ship - Bulk	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	CATERING PERSONNEL	Doc. & Impl. NOT APPLICABLE
	217	Safety of Navigation / SOLAS chart carriage requirements	0				0										
		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															
		(Only applicable to new ships (ships contracted to build on or after 1st July 2014) of a gross tonnage of 1,600 and above.)															
	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 -	BUI K C	\RP	IFR	- VI	-RS	ION	1 2U	22								Jinp Oc	
Revision Code	Norm item	BASIC Ship - Bulk	BOEK CA	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)		0		0													
	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		0		0		0		0		0		0		0		•	
	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 material	s?																
	310.11	Does the plan include a list of information required for making damage stability and damage lon strength assessments?	gitudinal																
	350	Prevention of pollution by garbage	-	0		0		0		0		0		0		0		•	
	350.2	Does the vessel have a ship specific garbage management plan detailing the specific ship's equarrangements and procedures for the handling of garbage?	ipment,																
	350.3	Are records kept according to the garbage management plan?																	

# **APPENDIX 4**

CHECKLIST - RANKING CRITERIA - SURVEY - BULK CARRIER

(BMC-09)

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK CA	RR	IER	- V	ERS	SIOI	N 20	022										
Revision Code	Norm item	RANKING Ship - Bulk	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING	Doc. & Impl.	CHIEF ENGINEER Doc. & Impl	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl. NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	1000	GENERAL																	
	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
					Mini	imum	rank	ring s	score		l score		nent 1	200 =	<del>-</del> 70			0	70
	1300	Compressor for the retilling of air cylinders for breathing apparatus or alternative, Additional Green Award						9		÷	)								
	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.								1								0	10
					-					Tota	l score	9		_				0	20
					Mini	mum	rank	ing s	_	requi	red fo	r elen	nent 1	300 =	= 10				
	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
											l score							0	35
	<u> </u>				Mini	ımum	rank	ung s	score	requi	red for	r elen	nent 1	400 =	= 20				

		Ship hand.																	o. op o	u oy.
		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK C	ARR	IER	- V	ER	SIO	N 2	022											
Revision Code	Norm item	RANKING Ship - Bulk	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING	Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl. NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	1500	Emergency Response System	0		0		0				0		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
					India.	imum	ron	kina	score		al sco		Jomo	nt 15	- 00	10			0	30
	1510	Emergency Oil Recovery			IVIIII	IIIIuII	l ram	Killy	SCOTE	requ	iireu	ioi e	Heine	ant 15	)UU =	10				
	1510.1	Is the vessel equipped with a system providing emergency access to cargo tanks and bunker tanks (for example, from th vessel deck), should the vessel be submerged?	е															T	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
			<i>                                     </i>		Min	imun	ran	kina	score		al sco		leme	ont 15	10 -	0			0	10
	1600	Computer Systems, Networks, Data Security and Training	0					9			0									
	1600.1	Are arrangements for vessel systems documented ? (configuration scheme)	Ť								_							+	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
					Ind:			la:lan.au	score		al sco				200	20			0	60
	1610	Cyber Risk Management			IVIIII	IIIIuii	liani	kilig	Score	requ	iiieu	ioi e	Jeine	311L TC	- 000	30				
	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?																$\perp$	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																	0	5
		followed in the event of a cyber attack?																		
	1610.12	followed in the event of a cyber attack?  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)?									al sco								0	5

		·																	,
		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK	CAR	RRIE	ER -	VEF	RSIC	)N 2	022										
Revision Code	Norm item	RANKING Ship - Bulk		MASTER	Doc. & Impl.	CHIEF OFFICER Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING	Doc. & Impl.	CHIEF ENGINEER	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl. NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	1700	Noise and Vibration Management																	
		Noise/Vibration Monitoring and Measures																	
	1700.2	Is the crew wearing hearing protectors which meet the requirements of the HML(High-Medium-Low) method (ISO 4869 2:1994) when entering spaces where noise levels exceed 85db(a)?															na	0	0
	1700.3	Does the PMS have the routine to inspect and rectify any abnormalities in terms of noise and vibration from a machine equipment?	у															0	5
	1700.4	Are appropriated measures implemented onboard in order to protect the crew from cargo handling equipment noise if noise exceeds 85db(a) (by taking into account technical solutions and/or exposure limits)?	ne															0	10
		Noise Mitigation and Health Hazards																	
	1700.8	Is the noise exposure limit of each rating/officer recorded and available onboard?																0	5
	1700.9	Is the crew restricted towards prolonged exposure in spaces where noise limits exceed 110 db(a)?																0	5
	1700.10	Are all engine exhaust pipes insulated with ship specific suitable silencers to attenuate noise?																0	5
	1700.11	Is the ship installed with noise cancelling equipment such as active mufflers/mounts, resilient mounts, vibration dampe where practically possible?	3															0	10
	1700.12	Are noise cancelling measures such as mineral wool/silencers being installed in the ventilation ducts or fan rooms to reduce the noise level?																0	10
			_[		- In	/linimu		. Islania			score			700	45			0	50
	1710	Underwater Noise and Vibration Management	-		IN	viinimu	m rar	iking	score	requ	red 10	relen	nent 1	700 =	: 13				
	1710.1	Were any measures implemented periodically to reduce cavitation from propeller?	+							+								0	-
	1710.1	Does the ship opt for re-routing or slow steaming where possible and practicable to protect whale sensitive areas?	-		-		+			-		+						0	5
	1710.4	Does the ship option re-routing or slow steaming where possible and practicable to protect whale sensitive areas?	+						<u> </u>	Tota	l score	9						0	10
			<b>///</b>		///// N	Minimu	m rar	nking	score				nent 1	710 =	: O			•	

IA COU		Эпр папе.															Date 0	i Ship S	arvoy.
		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK CA	RR	IER	- VI	ERS	101	1 20	22										
Revision Code	Norm item	RANKING Ship - Bulk	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl. NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	1800	Social Dimension / Sustainability																	
		A. Good Health & Well-Being																	
	1800.1	Does the vessel have an ITF or similar agreement in place?																0	10
	1800.3	Is an electronic device available on board specifically to access digital platform (web or app) subscribed by the company for seeking medical advice?																0	5
	1800.4	Has the shipboard staff been familiarized with platforms (online/offline) providing access to emotional support networks to tackle mental health issues?																0	5
	1800.5	Do all shipboard personnel have access to the internet at all times?																0	5
		B. Reduced Inequalities / Equal Opportunities / Diversity																	
		B.1 General																	
	1800.7	Have all ship board personnel been made aware of confidential reporting procedures to report harassment & discrimination?																0	5
	1800.8	Have steps been taken to create awareness among shipboard staff and to ensure effective implementation of policies focusing on subjects such as equal opportunities, equality and diversity, inclusion, anti-discrimination, anti-harassment, etc.?																0	5
		B.2 Gender-specific			_					_									
	1800.10	Does the vessel have women seafarer(s) working either as officers or ratings?																0	10
	1800.11	Is the ship equipped with the following specific facilities for women seafarers:  - feminine hygiene items (in bonded stores) & separate disposal facilities  - separate washrooms with sanitary facilities  - suitable sized (gender specific) safety and protective clothing  - access to medical supplies without having to consult male colleagues																0	5
					B#::					otal so		-1	m4 40	200	40			0	50
					wini	mum	ranki	ing s	core re	quirec	i for e	eieme	nt 18	3UU = '	10				

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK CA	RRI	ER	- VE	RSI	ON 2	2022	2									
Revision Code	Norm item	RANKING Ship - Bulk	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	Doc. & Impl.	DECK RATING	Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL		RANKING SCORE	RANKING MAX. SCORE
	2000	NAVIGATION / BRIDGE OPERATIONS																
	2100	Navigation	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	<u>Alternative to 2100.18</u> : 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
					Minim		-1-1			tal sco			0400	10			0	120
	2110	Flacture about display 9 information systems / FCDIC	0		o I	um ra		scor	e req	uirea	for ele	ment	2100 =	= 40				
		Electronic chart display & information systems / ECDIS  Only applicable to ships for which implementation date is still in the future and which do NOT use ECDIS as primary means of navigation																
	2110.1	Is the ship equipped with ECDIS (type approved, using only official ENCs, and/or RNCs, master & all navigating officers shall have completed generic training & have been familiarized with ECDIS unit(s) installed onboard according to the Industry Recommendations for ECDIS Familiarisation?														na	0	0
	2110.2	Are master & all navigating officers part of the introduction programme for usage of ECDIS?														na	0	0
					NAT1					tal sc			0446	_			0	0
					winim	um ra	nking	scor	e req	uired	for ele	ment	2110 =	= 0				

Electronic chart display & information systems / ECDIS  Applicable to ships for which carriage of ECDIS is compulsory and Bulk Carriers which choose to use ECDIS as primary means of navigation on voluntary basis  Is ECDIS hardware maintained and software updated?  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)?  Is the crew regardless of the generic training familiarized with the ECDIS unit(s) installed onboard according to the Industry Recommendations for ECDIS Familiarisation?	MASTER	Doc. & Impl.	CHIEF OFFICER	DECK OFFICER	Doc. & Impl.	DECK RATING	Doc. & Impl.  CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
Applicable to ships for which carriage of ECDIS is compulsory and Bulk Carriers which choose to use ECDIS as primary means of navigation on voluntary basis  Is ECDIS hardware maintained and software updated?  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)?  Is the crew regardless of the generic training familiarized with the ECDIS unit(s) installed onboard according to the Industry Recommendations for ECDIS Familiarisation?										-		$\overline{}$				
primary means of navigation on voluntary basis  Is ECDIS hardware maintained and software updated?  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)?  Is the crew regardless of the generic training familiarized with the ECDIS unit(s) installed onboard according to the Industry Recommendations for ECDIS Familiarisation?								4								
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)?  Is the crew regardless of the generic training familiarized with the ECDIS unit(s) installed onboard according to the Industry Recommendations for ECDIS Familiarisation?																
every update of the software (including back up)?  Is the crew regardless of the generic training familiarized with the ECDIS unit(s) installed onboard according to the Industry Recommendations for ECDIS Familiarisation?											L				0	5
Industry Recommendations for ECDIS Familiarisation?															0	5
											<u> </u>				0	15
Have all the officers completed structured ECDIS training(s) on top of the generic training (besides the familiarization onboard in R2111.6)?											<u> </u>				0	5
corrected to the latest available updates and NtM)?											<u> </u>				0	5
Does the ECDIS procedure suggest display settings (layers) of ECDIS for various navigation conditions (arrival / departure - coastal - deep sea)?											<u> </u>				0	10
Does the vessel have a basic folio of paper charts (in case second ECDIS is a back up system)?												丄			0	10
		In.	Minim	um rar	nkina				eleme	ent 21	11 = :	30			0	55
Fuel Change Over / Ballast Water Exchange	0	_	_	_	Ť											
Does the voyage plan (checklist) include when fuel change over should be carried out?												╅			0	10
Does the voyage plan (checklist) include when ballast water exchange can be carried out?															0	10
									_		_	_	=		0	20
		N	Vinim	_	Ť		equire	d for e	eleme	nt 21	20 = 2	20 —				
· · · · ·				0		0		Щ	ш			4				
									<u> </u>	_		$\dashv$				10
is an action plan in case of a neilcopter accident available?	-					L .	Total s	core	<u> </u>					J	0	10 20
	$\vdash$	N	Minim	um rar	nking				eleme	nt 22	200 = 2	20			- 0	
Mooring Operations	0		0			0										
Does the company give procedures/instructions for mooring/unmooring operations?												丁			0	10
Is new crew familiar with the operation and capabilities of the ship's mooring equipment?															0	10
Are specific mooring plans, which have been used at certain terminals, recorded?															0	20
Is a drawing of the mooring arrangement readily available on the bridge?															0	10
		IN					_									
	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)?  Does the ECDIS procedure suggest display settings (layers) of ECDIS for various navigation conditions (arrival / departure - coastal - deep sea)?  Does the vessel have a basic folio of paper charts (in case second ECDIS is a back up system)?  Fuel Change Over / Ballast Water Exchange  Does the voyage plan (checklist) include when fuel change over should be carried out?  Does the voyage plan (checklist) include when ballast water exchange can be carried out?  Helicopter / Ship Operations  Are crew members who are involved in helicopter/ship operations trained in standards and procedures?  Is an action plan in case of a helicopter accident available?  Mooring Operations  Does the company give procedures/instructions for mooring/unmooring operations?  Is new crew familiar with the operation and capabilities of the ship's mooring equipment?  Are specific mooring plans, which have been used at certain terminals, recorded?	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)?  Does the ECDIS procedure suggest display settings (layers) of ECDIS for various navigation conditions (arrival / departure - coastal - deep sea)?  Does the vessel have a basic folio of paper charts (in case second ECDIS is a back up system)?  Fuel Change Over / Ballast Water Exchange  Does the voyage plan (checklist) include when fuel change over should be carried out?  Does the voyage plan (checklist) include when ballast water exchange can be carried out?  Helicopter / Ship Operations  Are crew members who are involved in helicopter/ship operations trained in standards and procedures?  Is an action plan in case of a helicopter accident available?  Mooring Operations  Does the company give procedures/instructions for mooring/unmooring operations?  Is new crew familiar with the operation and capabilities of the ship's mooring equipment?  Are specific mooring plans, which have been used at certain terminals, recorded?	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)?  Does the ECDIS procedure suggest display settings (layers) of ECDIS for various navigation conditions (arrival / departure - coastal - deep sea)?  Does the vessel have a basic folio of paper charts (in case second ECDIS is a back up system)?  Fuel Change Over / Ballast Water Exchange  Does the voyage plan (checklist) include when fuel change over should be carried out?  Does the voyage plan (checklist) include when ballast water exchange can be carried out?  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Minim  Fuel Change Over / Ballast Water Exchange  Does the voyage plan (checklist) include when fuel change over should be carried out?  Does the voyage plan (checklist) include when ballast water exchange can be carried out?  Minim  Helicopter / Ship Operations  Are crew members who are involved in helicopter/ship operations trained in standards and procedures?  Is an action plan in case of a helicopter accident available?  Minim  Mooring Operations  Does the company give procedures/instructions for mooring/unmooring operations?  Is new crew familiar with the operation and capabilities of the ship's mooring equipment?  Are specific mooring plans, which have been used at certain terminals, recorded?	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)?  Does the ECDIS procedure suggest display settings (layers) of ECDIS for various navigation conditions (arrival / departure - coastal - deep sea)?  Does the vessel have a basic folio of paper charts (in case second ECDIS is a back up system)?  Minimum rar  Fuel Change Over / Ballast Water Exchange  Does the voyage plan (checklist) include when fuel change over should be carried out?  Does the voyage plan (checklist) include when ballast water exchange can be carried out?  Minimum rar  Helicopter / Ship Operations  Are crew members who are involved in helicopter/ship operations trained in standards and procedures?  Is an action plan in case of a helicopter accident available?  Minimum rar  Mooring Operations  Does the company give procedures/instructions for mooring/unmooring operations?  Is new crew familiar with the operation and capabilities of the ship's mooring equipment?  Are specific mooring plans, which have been used at certain terminals, recorded?	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Total score  Minimum ranking score required for element 2111 =  Fuel Change Over / Ballast Water Exchange  Does the voyage plan (checklist) include when fuel change over should be carried out?  Does the voyage plan (checklist) include when ballast water exchange can be carried out?  Helicopter / Ship Operations  Are crew members who are involved in helicopter/ship operations trained in standards and procedures?  Is an action plan in case of a helicopter accident available?  Mooring Operations  Does the company give procedures/instructions for mooring/unmooring operations?  Is new crew familiar with the operation and capabilities of the ship's mooring equipment?  Are specific mooring plans, which have been used at certain terminals, recorded?  Is a drawing of the mooring arrangement readily available on the bridge?	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)?  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Minimum ranking score required for element 2120 = 20   Minimum ranking score required for element 2120 = 20   Minimum ranking score required for element 2120 = 20   Mooring Operations   Mooring Operations   Minimum ranking score required for element 2200 = 20   Mooring Operations   Minimum ranking score required for element 2200 = 20   Mooring Operations   Minimum ranking score required for element 2200 = 20   Mooring Operations   Minimum ranking score required for element 2200 = 20   Mooring Operations   Minimum ranking score required for element 2200 = 20   Mooring Operations   Minimum ranking score required for element 2200 = 20   Mooring Operations   Minimum ranking score required for element 2200 = 20   Mooring Operations   Minimum ranking score required for element 2200 = 20   Mooring Operations   Minimum ranking score required for element 2200 = 20   Mooring Operations   Minimum ranking score required for element 2200 = 20   Mooring Operations   Minimum ranking score required for element 2200 = 20   Mooring Operations   Minimum ranking score required for element 2200 = 20   Mooring Operations   Minimum ranking score required for element 2200 = 20   Mooring Operations   Minimum ranking score required for element 2200 = 20   Mooring Operations   Minimum ranking score required for element 2200 = 20   Moo	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)?  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Is new crew familiar with the operation and capabilities of the ship's mooring equipment?  Are specific mooring plans, which have been used at certain terminals, recorded?

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		CHECKLIS	T - RANKING CRITERIA - SHIP SURVEY - BULK CA	RR	IER	- VEF	RSIO	N 20	22									
Revision Code	Norm item	GREEN AWARD	RANKING Ship - Bulk	MASTER	Doc. & Impl.	CHIEF OFFICER Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl. NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	3000	MACHINERY / ENGINE OPERATIONS																
	3100	Bunker Operations					0			0		0	C	)				
	3100.1	Does the company MS specify a safe-maximum perce	ntage fill for bunker tanks? (max. limit 95%)														0	10
	3100.2	Is a checklist used for bunker operations (company for	rmat) ?														0	10
	3100.3	Does the bunker procedure include a bunker plan (cor	npany format) ?														0	10
	3100.4	Are there procedures/instructions for the internal trans	<u> </u>														0	10
	3100.5	Is there an instruction that all persons involved are to transfer operation and their duties?	pe familiar with the intended bunker operation and/or internal														0	10
						Minimu	m ran	kina e		otal sc		lomon	+ 2100	) = 50			0	50
	3101	Bunker Operations - LNG				William	III I all	Killy S	core re	quireu	l loi ei	lemen	11 3100	7 = 30				
	3101.1	•	bunkering checklist - either by company SMS or by instructions														0	10
	3101.2	Do shipboard personnel make use of LNG specific PP protection during LNG bunkering operations?	Es such as protective cryogenic gloves and safety goggles with side	•													0	10
	3101.3	or operation control room?	or the purpose of observing the bunkering operation from the bridge														0	10
	3101.4	Does a designated shipboard personnel provide a decentire duration of the LNG bunkering?	licated watch (from a safe location) on bunker station during the														0	5
	3101.5	Does the ship use thermal imaging camera/equipment	for leakage detection of LNG during bunkering?														0	5
	3101.6	Have relevant shipboard personnel completed a shore	-based training on LNG bunkering?														0	10
				┢	-	Minimu	m ran	king s		otal sc		lomen	+ 3101	- 25			0	50

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK CA	RRI	IER	- VE	ERS	ION	1 20:	22									
Revision Code	Norm item	RANKING Ship - Bulk	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	CATERING PERSONNEL	Doc. & Impl.	RANKING SCORE	RANKING MAX. SCORE
320	00	Fuel oil management																
		B.Sampling & Testing																
		B.1 MARPOL delivered fuel oil sampling																
3200		Is all fuel oil sampling (during bunkering) carried out using an automatic sampler (time or flow proportional) in accordance with MARPOL Annex VI?															0	10
		B.2 In-use fuel oil sampling		-		-		-		-		=	=		-	-	-	
3200	0.16	Are fuel oil samples drawn from the following designated sampling points at least once every four months for testing of catalytic fines & separator efficiency at a recognized fuel analysis organization ashore?  1. at engine inlet 2. before separator 3. after separator															0	10
		B.3 Testing				•				-			•				•	•
3200		Is bunkered fuel oil <u>always</u> tested (before use onboard) by a recognized fuel analysis organization ashore in accordance with the requirements of ISO 8217 standard?															0	40
		C. Operational procedures						•							•	•	-	
3200	0.17	Is the commingling of two different bunkers (even of the same grade of fuel) prohibited?															0	10
3200	0.18	For the situations where commingling of two different fuels is unavoidable, does the relevant ship crew implement the company prescribed <u>commingling procedure</u> to determine the compatibility of two bunkers (including the reference test methods)?															0	5
		D. Additional questions													-	-		
320	0.19	Are the copies of valid certificate of quality (COQ) and associated laboratory analysis reports for the recently bunkered fuel oil available on board?															0	5
					Minir	num :	rankii	na sc		otal so		alomo	nt 320	00 = 40	<u> </u>		0	80
330	00	On-shore Power Supply	0		0		ankli	<u> </u>	0	quiret	. 101 6		520	- 40				
3300		Is the vessel fitted with On-shore Power Supply equipment?				+											0	20
3300		Is the crew familiarised with the operation and safety aspects of On-shore Power Supply?				$\dashv$											0	5
									1	otal s	core						0	25
					Minir	num i	rankii	ng so	core re	quired	for e	eleme	nt 330	00 = 0				

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK CA	RR	IER	- V	ERS	101	V 20	)22											
Revision Code	Norm item	RANKING Ship - Bulk	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING	Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl.	NOT APPLICABLE		RANKING MAX. SCORE
	4000	CARGO OPERATIONS	_	_																
	4500	Hull Stress Monitoring System	0		0															
	4500.1	Does the vessel have a hull stress monitoring system which provides real-time information with readouts both in the CCR and on the bridge?					·		'									(		20
					Mini		ronk	inaa	0010		l scc	re for ele	mont	4500	- 0			(	)	20
	4601	Preparation of loading / unloading plan	0		0	IIIuIII	Idiik	ing s	core	requ	reu	or ele	nent	4300	= 0					
	4601.1	Does the company distribute relevant cargo instructions to the vessel? (e.g. is ship compatible for intended cargo)																	<del>-  </del>	20
	4601.2	Does the master receive clear instructions about identity of charterer with respect to reporting and consultation?																	_	10
	4601.3	Does the shipbroker (or head office staff) contact the master to request his confirmation that a cargo can be safely carried and his calculations of the tonnage that the ship can carry between specified ports?																(	)	20
	4601.4	Is the ship provided with information about the terminal in order to plan the loading and unloading plan?																(	)	10
	4601.5	Has the master received the details of the nature of the cargo from the shipper of the intended cargo?																(	)	10
	4601.6	Is the master provided with information on the strength of the hull girder system for representative scenarios of loading and discharging of intended loading conditions?																(	)	20
					Mini	mum	rank	ing c	coro		l sco	re for ele	mont	4601	- 70					90
	4602	Cargo handling and operations	0		0	IIIuiii	0	ang s	0	requ	0	loi elei	Hent	4001	- 70					
	4602.1	Is it company procedure that the ship shore safety checklist for loading or unloading dry bulk cargo carriers (MSC/Circ. 690) has to be used before loading/unloading operations?							_									(		20
	4602.2	Does the company give procedures/instructions in relation to the entire cargo operations?																(		20
	4602.3	Is ship's stability and loading information readily available, accurate and easy for the officers to use?																(		10
	4602.4	Is the ship's officer in charge informed about remaining amount of cargo on the conveyor belt that must be loaded after a "STOP"?																(	)	10
	4602.5	Is the ship's officer in charge provided with loaded cargo weight at frequent intervals & at the end of each pour?																(	)	10
	4602.6	Has the master received a written cargo declaration, before commencement of loading?																(		10
	4602.7	Does the company give procedures / instructions for handling of stevedores' damage?																(		10
	4602.8	Is damage to the hatch covers, hatch coamings and associated fastenings directly reported with a written notice? (in order to make the person who caused the damage more careful in avoiding further damage)																(	)	20
	4602.9	Is an effective deck watch in attendance on deck during cargo operations?																(	-	10
	4602.10	Does the master have readily accessible information on the total quantity loaded, as well as the quantities per hour?												$\perp$			-	(	-	10
	4602.11 4602.12	Is a working procedure available with regard to deviations in the loading / unloading plan?  Are hatch identification numbers clearly visible to the operator of the loading or unloading equipment? (e.g. location, size																		10
	4602.13	and colour)  Is it company policy that cargo which is liable to stick between frames is removed on time? (e.g. in order to prevent damage caused by pneumatic hammers, bulldozers etc.)																(	+	10
		parinage eacoust of prioritians framinate, builderois story			1						l scc							(		170
					Mini	mum	rank	ing s	core	requ	red f	for ele	ment	4602	= 130					

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK CA	RR	IER	- VI	ERS	SION	1 20	22										
Revision Code	Norm item	RANKING Ship - Bulk	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	4603	Safe work facilities during cargo operations	0		0		0												
	4603.1	Are potentially hazardous objects or objects which are likely to be damaged during discharging, indicated? (e.g. adjacent fuel tanks, position and type of hold ladders, position of projecting pipes, steeply receding sloping sides)																0	10
	4603.2	Are stevedores informed about the potentially hazardous objects which are indicated?																0	10
	4603.3	Are opened hatches surrounded by a safe, sturdy rail with stanchions?																0	10
	4603.4	Is access to holds safe and well maintained? (e.g. fixed hold ladders on both sides, access to hold via enclosed shafts free of harmful gasses and with adequate ventilation, access shafts must have adequate sufficient illumination)																0	10
	4603.5	Is sufficient lighting in hold working area available?																0	10
					Mini	mm	ronki	na 0	ore re	otal so		lomor	o+ 460	02 – E	^			0	50
	4604	Communication during cargo operations, GA requirement for all cargoes	0		0		O	ng st	Joie ie	quirec	1101 6	Jeiner	11 400	03 = 3	T				
	4604.1	Is the terminal representative made aware of the loading / unloading plan?					_	-							+			0	10
	4604.2	Is the terminal's representative made aware of the requirements for harmonisation between deballasting and cargo loading rates for his ship? (e.g. times at which loading may need to be suspended, etc.)																0	10
	4604.3	Are names and procedures readily available for contacting the terminal personnel or shipper's agent who have responsibility for the loading or unloading operation and with whom the master will have contact?																0	10
	4604.4	Are communication arrangements between ship and terminal capable of responding to requests for information on the loading/unloading process and prompt compliance in the event that the master orders loading/unloading to be suspended?																0	10
					Mini	muum	ronki	na 0	ore re	otal so		lomor	ot 460	04 – 4	_			0	40
	4605	Inspections during cargo operations	0		0	um	O	ny st	ole le	quired	101 6	siemer	400	v→ = 4					
	4605.1	Are inspections of cargo holds conducted before all loading and after all unloading operations?					_	+										0	20
	4605.2	Are inspections of the cargo done in way of the hatch coaming immediately upon opening the hatches at the end of a sea voyage?																0	10
	4605.3	Is any detected damage (after completion of unloading) recorded and is this agreed on by the terminal?				ı		T										0	20
	4605.4	Are damages to frames, brackets and plating recorded so that new damage can be detected? (cover plates for manholes or grating for bilge wells are not missing?)																0	20
		V /								otal so					-			0	70
		<u> </u>			Mini	mum	ranki	ng s	ore re	quired	l for e	elemer	nt 460	05 = 4	0				

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			CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK CA	ARR	IER	- VEI	RSIC	ON 2	022										
Revision Code	Norm item	GREEN AWARD	RANKING Ship - Bulk	MASTER	Doc. & Impl.	CHIEF OFFICER	DECK OFFICER	Doc. & Impl.	DECK RATING	Doc. & Impl.	CHIEF ENGINEER Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl. NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	4606	Safety precautions during cargo ope	rations	0		0													
	4606.1	Does the company provide instructions	/ procedures to control the access of unauthorised persons on board?															0	20
	4606.2	Are there procedures to ensure that a s	ufficient number of personnel is available in case of emergency during port stay?															0	10
	4606.4	Is a terminal emergency plan available of	on board? (Deck office)															0	10
											I score							0	40
	4000	O O	A			Minimi	ım raı	nking	score	requi	red for	elem	ent 46	506 = 3	20				
	4800	Cargo Operations, Additional Green	·			U													
	4800.1		ese tested prior to loading or unloading and proved operational?															0	10
	4800.2	Is vessel equipped with an approved ele	ectronic system for measuring the draught with remote readouts?															0	10
	4800.3	Is the measuring system for bunker and	ballast tanks on line with the loadicator?															0	10
	4800.4	Is a cargo drain tank installed? (e.g. dra	ninage of cargo moisture, calculation of cargo weight)															0	30
	4800.5	Is the cargo drain tank provided with an overboard of cargo residues during stay	approved filter system between tank and sea valve? (e.g. to prevent pumping y in ports)															0	10
										-	l score							0	70
						Minim	ım raı	nking	score	requi	red for	elem	ent 48	B00 = 1	0				

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK C	RRIER - VERSION 2022	
Revision Code	Norm item	RANKING Ship - Bulk	MASTER Doc. & Impl. CHIEF OFFICER Doc. & Impl. DECK OFFICER Doc. & Impl. DECK RATING Doc. & Impl. CHIEF ENGINEER Doc. & Impl. ENGINEER RATING CATERING PERSONNEL Doc. & Impl. CATERING PERSONNEL Doc. & Impl. CATERING SCORE RANKING SCORE	RANKING MAX. SCORE
	5000	PREVENTION OF POLLUTION		
	5100	Biofouling Management		
N	5100.5	Are there ship-specific procedures/instructions (according to IMO guidelines) for the control and management of ship's biofouling to minimize the transfer of invasive aquatic species?	0	10
N	5100.6	Does the ship undergo in-water inspections and proactive hull cleanings as per the frequency and timing defined in consultation with coatings manufacturer and/or coatings consultant?	0	5
N	5100.7	Does the ship communicate to the office data points that are pre-defined as indicators for reactive hull cleaning (For example, based on performance monitoring or other relevant datasets such as increased drag or increased friction)?	0	5
N	5100.9	Is the vessel's hull coated with non-toxic hard coating to mitigate bio-fouling?	0	10
-			Total score 0	30
			Minimum ranking score required for element 5100 = 5	

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK CA	RR	IER	- VE	RS	ION	202	2										
Revision Code	Norm item	RANKING Ship - Bulk	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	DECK RATING	Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl.	NOT APPLICABLE RANKING SCORE		RANKING MAX. SCORE
	5200	Waste Management / Garbage Handling Onboard			0					0					0				
		A. General procedures				•	<u>'</u>								_				
	5200.31	Are all collection garbage receptacles for all categories of garbage labelled/marked and color coded?															0		5
	5200.9	Is there a designated space for long term stowage of garbage (except food waste)?															0		10
	5200.4	Is the vessel equipped with compactor to reduce the volume of garbage?															0		5
	5200.37	Is the vessel equipped with a waste shredder?															0		5
	5200.22	Are all recyclable material such as paper, plastic, metal (for example, tin cans) and dunnage always delivered to the port reception facilities?															0		5
		B. Garbage types																	
		B.1 Food waste																	
	5200.11	Is the vessel equipped with grinder/comminutor for food waste?															0		5
	5200.32	Is the grinder / comminutor also used beyond 12 nautical miles (and operating outside special areas) from the nearest shore as they hasten assimilation into the marine environment?															0		10
	5200.33	Is the discharge from comminutors directed to a dedicated holding tank while the vessel is operating in special areas?															0		5
	5200.34	Is the vessel equipped with a refrigerated sack compactor or freezer space for food waste storage?															0		5
	5200.35	Is the vessel equipped with a grease interceptors (grease traps)?															0		5
		B.2 Cargo residue															-		
	5200.29	Are there verifiable efforts made onboard to minimize the amount and proper treatment of cargo residues?															0		10
	5200.26	Are cargo residues delivered to the reception facility as appropriate? (where reception facilities are available)															0		10
		B.3 Ashes and clinkers			1			_										_	_
	5200.25	Are all incinerated ashes and clinkers always delivered to the port reception facilities?															0		10
		B.4 Cleaning agents & additives			1	-					ī						1 .		
	5200.27	Are non harmful (MARPOL Annex V compliant) cleaning agents and additives used for cleaning the cargo holds?						-									0		10
	5200.28	Are non harmful (MARPOL Annex V compliant) cleaning agents and additives used for cleaning the deck / external surfaces?															0		10
	F200 22	B.5 Plastics			1	- 1		1		1	- 1		- 1		1			-	40
	5200.20	Are the crew aware that plastic should not be incinerated?	-			-		-			$\dashv$		-			$\dashv$	0		10 5
	5200.39 5200.40	Are plastic cutlery, dishes & straws banned on board?  Are beverages and mineral water bottles in bonded store replaced by better sustainable alternatives such as beverages in				+					-				-		0		5
	5200.40	tin cans and large water barrels in a dispenser?  Are single food servings in small plastic pots not used on board (for example, small yoghurt pots are replaced with									-		+				0		5
	5200.42	decanted supplies in large containers)?  Is fine filtering mesh installed to the ship's washing machine's outlets to prevent micro-plastic fibres reaching the ocean?				$\blacksquare$					+		-				0		5
	5200.43	Are old plastic ropes and mooring lines forbidden to be dumped at sea and be retained on board until landed ashore for correct disposal?											$\dagger$				0		5
		C. Additional questions			<u> </u>	!				<u> </u>						1			
	5200.16	Has the crew completed training / education programme in relation to garbage management?			1	1					1		-1		1				5
	0200.10	rao aro oron completes adming / education programme in relation to garbage management:							Tot	tal sco	ore						0		150
					Minin	num	rankin	g sco				lemen	t 520	00 = 70					

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK CA	RR	IER	- VI	ERS	ION	2022	2										
Revision Code	Norm item	RANKING Ship - Bulk	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	DECK RATING	Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	5410	NOx Emissions	_	_						0		_		_		<u> </u>			
		A. Emission Monitoring																	
	5410.10	Does the ship use a continuous emission monitoring system (in-situ or extractive) for monitoring and recording NOx emissions?																0	10
		B. Emission Reduction																	
		For ships keel laid between 01-01-2000 and 31-12-2010 (Tier I mandatory ships)																	
	5410.11	Does the ship reach the NOx tier 2 limits on the <u>main engines</u> ?																0	10
	5410.12	Does the ship reach the NOx tier 2 limits on the <u>auxiliary engines</u> ?																0	10
		For ships keel laid on / after 01-01-2011 (5410.13 - 5410.18)																	
	5410.13	Does the ship reach NOx emissions 15% below the tier 2 limits on their main engine?																0	5
	5410.15	ALTERNATIVE 1 to 5410.13 Does the ship reach NOx emissions 30% below the tier 2 limits on their main engine?																0	10
	5410.17	ALTERNATIVE 2 to 5410.13 Does the ship reach NOx emissions 50% below the tier 2 limits on their main engine?																0	15
	5410.14	Does the ship reach NOx emissions 15% below the tier 2 limits on their <u>auxiliary engine</u> ?																0	5
	5410.16	ALTERNATIVE 1 to 5410.14  Does the ship reach NOx emissions 30% below the tier 2 limits on their auxiliary engine?																0	10
	5410.18	ALTERNATIVE 2 to 5410.14  Does the ship reach NOx emissions 50% below the tier 2 limits on their auxiliary engine?																0	15
		For ALL ships (5410.19)																	
	5410.19	Do all the ship's engines (main and auxiliary) <u>ALWAYS</u> operate at NOx Tier 3 levels in all ports and contiguous zones (24 nm from the nearest land)?																0	30
		C. Additional Questions																	
		Exhaust Gas Recirculation (EGR)																	
	5410.22	Does the ship communicate negative test results from the continuous monitoring of exhaust gas recirculation bleed-off discharge water to the company?  * The guidelines set out in MEPC.259 (68) are applicable to EGR bleed-off discharge water as well.																0	10
	5410.23	Is the treated wash water discharged from the EGR unit as bleed-off water collected for sampling periodically and communicated communication made to the company for the below parameters?  1. Heavy metals 2. Wash water additives.  *Above two values are on top of the mandatory monitoring of pH, PAH, turbidity values set by IMO.																0	15
	5410.24	Is appropriate PPE being used by the crew during the handling of caustic soda which is used as an additive for EGR?																0	5
		Selective Catalytic Reduction (SCR)																	
	5410.26	Does the shipboard crew monitor the catalyst condition continuously to make sure injected urea is fully utilized to avoid ammonia slip?																0	20
					B. 41					tal sco		la	-1.51	10 -				0	140
	<u> </u>				Mınir	num	rankin	g sco	re req	uired	tor e	iemei	nt 54'	10 = 3	55				

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK CA	RR	IER	- V	ERS	101	<b>1</b> 20	22										
Revision Code	Norm item	RANKING Ship - Bulk	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	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? (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)																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)?  * 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).																0	10
	5420.14	Does the ship communicate negative test results from the continuous monitoring of wash water discharge to the company?  *The wash water discharge criteria have been set out in MEPC.259 (68).																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  *Above two are on top of the mandatory monitoring of pH, PaH, turbidity values set by IMO.																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*? *Applicable only for vessels fitted with EGCS capable of operating in closed-loop mode.																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
									7	otal s	core							0	105

			on prants																or or inp c	
		C	HECKLIST - RANKING CRITERIA - SHIP SURVEY - BUL	K CAI	RR	IER	- VE	RSIC	N 2	022										
Revision Code	Norm item	GREEN AWARD	RANKING Ship - Bulk		MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.  DECK OFFICER	Doc. & Impl.	DECK RATING	Doc. & Impl.	CHIEF ENGINEER	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl. NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	5421	Ships required to carry out Fuel Chang (low sulphur Distillates)	ge Over to low sulphur Marine Diesel Oil or low sulphur Marine Gas Oi	il								0	0							
	5421.1		sessment with respective manufacturers, for any necessary modifications ard? (modifications should be class approved)	to the															0	20
	5421.2	Are <b>updated</b> fuel change over procedures (procedures should be available for each	s (company-approved) available for the main engine, auxiliary engines & bound fuel type used onboard)	oilers?															0	10
	5421.3	Are crew familiarised with updated fuel ch	ange over procedures?																0	10
	5421.4	If modifications to fuel system are require	d, are <b>updated</b> detailed fuel system diagrams for fuel change over available	le?															0	10
	5421.5	Is an additional inspection carried out accoperation?	cording to documented instructions, to check for leakages during distillate fu	uel															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		sulphur fuel for a prolonged period Are there instructions from the engine nder) lube oil for main & auxiliary engines?																0	5
							Minim	um rar	kina	scor		l score		ont 5	/21 –	. 55			0	75
	5430	Particulate Matter (PM) Emissions			0			a rai	I			0								
	5430.7	Does the ship have a Diesel Particulate F	ilter (DPF) for both main and auxiliary engines?																0	10
	5430.8	Does the ship have a Diesel Oxidation Ca	atalyst (DOC) for both main and auxiliary engines?																0	10
	5430.9	Does the ship have an Electrostatic Preci	pitator (ESP) for both main and auxiliary engines?																0	10
												l score					•	•	0	30
							Minim	um rar	nking	score	e requi	red fo	r elem	ent 5	430 =	: 0				

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK CA	١RR	IER	- V	ERS	101	N 20	22									
Revision Code	Norm item	RANKING Ship - Bulk	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl. NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	5440	Greenhouse Gas (GHG) Emissions - CO₂ Emissions								0								
		A. Emission Monitoring																
	5440.10	Does the ship 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
	5440.11	Applicable to ships contracted for building on or after 1st January 2013, or delivered on or after 1st July 2015:  Is the "attained EEDI" data for the ship available onboard?															0	5
		Attained EEDI of the ship	=															
	5440.14	Does the ship use a ship performance monitoring software to monitor and reduce energy consumption by operational measures on-board?															0	5
		B. Emission Reduction																
		Short term goals (CO <sub>2</sub> reduction through energy efficiency measures)																
	5440.15	(Design and operational based measures) Energy efficiency measures implemented on-board the vessel?															0	20
		For ease of use, measures are grouped according to the GLOMEEP Energy efficiency technologies information portal.	If Y	ES,	cho	ose fr	om I	belov	v optic	ns ar	nd fill	l-in s	upple	ement	CO <sub>2</sub> -	GloM	EEP tal	, ]
		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																

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK (	CARRIER - VERSION 2022
Revision Code	Norm item	RANKING Ship - Bulk	MASTER Doc. & Impl CHIEF OFFICER Doc. & Impl DECK OFFICER Doc. & Impl DECK RATING Doc. & Impl CHIEF ENGINEER Doc. & Impl ENGINEER OFFICER Doc. & Impl ENGINEER PATING CATERING PERSONNEL Doc. & Impl ENGINEER RATING MOT APPLICABLE RANKING SCORE RANKING SCORE
		Mid term goals (CO₂ reduction through the use of low carbon fuels)	
	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	r=
	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	/r=

CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK CARRIER - VERSION 2022			
Revision Code	Norm item	RANKING Ship - Bulk	Doc. & Impl.  CHIEF OFFICER  Doc. & Impl.  DECK OFFICER  Doc. & Impl.  DECK RATING  Doc. & Impl.  CHIEF ENGINEER  Doc. & Impl.  CHIEF ENGINEER  Doc. & Impl.  ENGINEER RATING  Doc. & Impl.  CATERING PERSONNEL  Doc. & Impl.  CATERING PERSONNEL  Doc. & Impl.  CATERING PERSONNEL  Doc. & Impl.  RANKING SCORE  RANKING MAX. SCORE
		Long term goals (CO <sub>2</sub> 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	r= /
	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*	<del>                                     </del>
		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 out out*	+ + + + + + + + /
		Other: *fill during survey*  Win	
		If Other	
		C. Additional Questions	<del>'</del>
	5440.23	Have shipboard personnel received training for energy efficiency measures and related monitoring systems on board?	0 10
	5440.25	inave shippodra personner received training for energy enforcincy measures and related monitoring systems on board?	Total score 0 155
-			Minimum ranking score required for element 5440 = 15

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK CA	RR	IER	V	ER	SIO	N 20	)22										
Revision Code	Norm item	RANKING Ship - Bulk	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl. NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	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
					Min	imun	ı ranl	ina s	core r	Fotal s		elem	ent 5	441 -	- 0			0	35
	5460	Environmental Ship Index (ESI)						9		0					Ì				
	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
					al					Total s		_					_	0	60
	5500	Courage Management			Min	imun	n rani	ing s	core r	equire	d for (	elem	ent 5	460 =	= 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?			I			I				Ī						0	10
					1							-		1				<u> </u>	
	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
	5500.2 5500.3	Are samples of treated discharged effluent from the sewage treatment plant collected periodically (at least annually) for lab																0	10
		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?  Is the ship in possession of the periodical sample testing report/certificate from a laboratory ashore confirming the																	
	5500.3	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?  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
	5500.3	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?  Is the ship in possession of the periodical sample testing report/certificate from a laboratory ashore confirming the compliance with the relevant MEPC standards?  Is the sewage treatment plant regularly checked and maintained as per manufacturer's guidelines?																0	10 5
	5500.3 5500.8	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?  Is the ship in possession of the periodical sample testing report/certificate from a laboratory ashore confirming the compliance with the relevant MEPC standards?  Is the sewage treatment plant regularly checked and maintained as per manufacturer's guidelines?  For all ships: Sewage Holding Tank			Min	imum	rant	ing s		Fotal s		alem	ent 5	500 -	- 20			0	10 5
	5500.3 5500.8 5500.7	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?  Is the ship in possession of the periodical sample testing report/certificate from a laboratory ashore confirming the compliance with the relevant MEPC standards?  Is the sewage treatment plant regularly checked and maintained as per manufacturer's guidelines?  For all ships: Sewage Holding Tank  Is the sewage holding tank regularly checked and maintained?			Min	imum	rank	king s	score r			elemo	ent 5	500 =	= 20			0 0	10 5
	5500.3 5500.8	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?  Is the ship in possession of the periodical sample testing report/certificate from a laboratory ashore confirming the compliance with the relevant MEPC standards?  Is the sewage treatment plant regularly checked and maintained as per manufacturer's guidelines?  For all ships: Sewage Holding Tank  Is the sewage holding tank regularly checked and maintained?  Grey Water Management			Min	imum	rank	king s				eleme	ent 5	500 =	= 20			0 0	10 5 20 55
	5500.3 5500.8 5500.7	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?  Is the ship in possession of the periodical sample testing report/certificate from a laboratory ashore confirming the compliance with the relevant MEPC standards?  Is the sewage treatment plant regularly checked and maintained as per manufacturer's guidelines?  For all ships: Sewage Holding Tank  Is the sewage holding tank regularly checked and maintained?			Min	imum	rank	sing s				elemo	ent 5	500 =	= 20			0 0 0	10 5

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK CA	RR	IER	- VI	ERS	101	1 202	22										
Revision Code	Norm item	RANKING Ship - Bulk	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	5700	Ballast Water Management (BWM)	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
			Total score 0 85  Minimum ranking score required for element 5700 = 50																
					Mini	mum	ranki	ng so	ore re	quired	for e	lemen	it 570	00 = 50					

0, 1, 0, 0, 0		Ship hamo.															-	Julio 0.	Onip Oc	avey.
		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BUI	K CA	RR	IER	- VE	ERS	ION	202	2										
Revision Code	Norm item	RANKING Ship - Bulk		MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	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 19								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 all 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 of transfer operation will normally be located?	r																0	5
											tal sc			. ==					0	30
						Minir	num r	ankir	ng sco	re rec	uired	for e	eleme	ent 58	00 = 5					
	5801	Protection of fuel oil tanks, lube oil tanks and hull									0									
	5801.1	Are any tanks intended for fuel-oil or other substances, with a minimum capacity of 20m³, constructed at least B/15 metres above the keel level?																	0	10
	5801.2	Are tanks for fuel oil protected by a double side ? (for ships below 20,000gt, width of double side to be at least 0.76 20,000gt and above, width to be at least 2 metres)	m ; for																0	40
	5801.3	Are all lubrication oil tanks constructed at least 0.76 metres 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 feature example, sandwich plate structure)?	s (for																0	30
										To	tal sc	ore							0	100
				Minimum ranking score required for element 5801 = 20																

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK CA	PPI	IFR	- V	FPS	NOIS	201	22										
	I	CHECKEST - KANKING CKITEKIA - SHIP SUKVET - BUEK CA		ILN	- V	LING	DIOIN	202		1			ı		П	$\overline{}$	—	_	
Revision Code	Norm item	RANKING Ship - Bulk	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl. NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
		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)		•													T	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
										otal so		_						0	60
					Mini	mum	rankir	ng sc	ore re	<del>-</del>	for e		nt 58	310 =	15				
	5811	Mooring wire lubrication								0		0			Щ		4		
	5811.1	Does the vessel use a mooring wire lubricant / grease that is certified according to the EEL?								<u> </u>		L						0	20
					Mini	mum	rankir	na sc		otal so		eleme	nt 58	311 =	0			0	20
	5812	Deck equipment lubrication (use of oils)							0.0.0	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
	5812.5	Does the vessel use hydraulic oil that is certified according to the EEL in hatch closing system?																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
					Mini	mum	rankir	na sc		otal so		eleme	nt 58	312 =	0			0	65
	5820	Management of bilge water and sludge handling onboard			0		0	Ť	0	0		0	30		j				
	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?								1					$\dashv$			0	5
			Total score 0 15  Minimum ranking score required for element 5820 = 15																
					Mini	mum	rankir	ng sc	ore re	quired	for e	eme	nt 58	320 =	15				

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?  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)?  B. Soot Collection Tank arrangement  5821.10 Is washwater from the economizer/boilers collected in a Soot separation / collection tank?  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)?  5821.11 Is an independent pump arrangement available for the discharge from the Soot separation / collection tank to overboard?  5821.2 Are management instructions regarding disposal of soot and soot-water mixtures available onboard?  C. Oily bilge water tank arrangement  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?	O DECK RATING DOC. & Impl. O CHIEF ENGINEER DOC. & Impl.	5 5											
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?  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)?  B. Soot Collection Tank arrangement  5821.10 Is washwater from the economizer/boilers collected in a Soot separation / collection tank?  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)?  5821.11 Is an independent pump arrangement available for the discharge from the Soot separation / collection tank to overboard?  5821.2 Are management instructions regarding disposal of soot and soot-water mixtures available onboard?  C. Oily bilge water tank arrangement  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?		5											
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15 ppm oil content meter and alarm?  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)?  B. Soot Collection Tank arrangement  S821.10 Is washwater from the economizer/boilers collected in a Soot separation / collection tank?  Is soot separation / collection tank decanted, remaining water transferred to bilge holding tank and solid soot particles collected for garbage disposal (reception facility)?  S821.11 Is an independent pump arrangement available for the discharge from the Soot separation / collection tank to overboard?  S821.2 Are management instructions regarding disposal of soot and soot-water mixtures available onboard?  C. Oily bilge water tank arrangement  S821.12 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?		5											
B. Soot Collection Tank arrangement  5821.10 Is washwater from the economizer/boilers collected in a Soot separation / collection tank?  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)?  5821.11 Is an independent pump arrangement available for the discharge from the Soot separation / collection tank to overboard?  5821.2 Are management instructions regarding disposal of soot and soot-water mixtures available onboard?  C. Oily bilge water tank arrangement  S821.12 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 0	5											
5821.10 Is washwater from the economizer/boilers collected in a Soot separation / collection tank?  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)?  5821.11 Is an independent pump arrangement available for the discharge from the Soot separation / collection tank to overboard?  5821.2 Are management instructions regarding disposal of soot and soot-water mixtures available onboard?  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												
Is soot separation / collection tank decanted, remaining water transferred to bilge holding tank and solid soot particles collected for garbage disposal (reception facility)?  Is an independent pump arrangement available for the discharge from the Soot separation / collection tank to overboard?  Are management instructions regarding disposal of soot and soot-water mixtures available onboard?  C. Oily bilge water tank arrangement  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												
collected for garbage disposal (reception facility)?  5821.11 Is an independent pump arrangement available for the discharge from the Soot separation / collection tank to overboard?  5821.2 Are management instructions regarding disposal of soot and soot-water mixtures available onboard?  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?		10											
5821.2 Are management instructions regarding disposal of soot and soot-water mixtures available onboard?  C. Oily bilge water tank arrangement  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?													
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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											
separation of oil and water?													
	0	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													
M/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											
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											
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											
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											
M/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											
Minimum ranking sc													

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULI	CAI	RRI	IER	- VE	RSI	ON	202	2									
Revision Code	Norm item	RANKING Ship - Bulk		MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	Deck Officer	DECK RATING	Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl.	RAINING SCORE	RANKING MAX. SCORE
	5822	Outfitting of sludge handling system																	
	5822.1	Is a sludge collecting pump installed (with the sole purpose of collecting the sludge from different ER tanks to the Oil Residue (Sludge) Tank)?																0	5
	5822.2	Is a sludge discharge pump installed with the purpose of discharging the sludge to reception facilities (with sufficient capacity to discharge the sludge within 8 hrs)																0	5
	5822.8	Is a tank or system installed with the sole purpose of removing large quantities of water from the sludge?																0	5
	5822.9	Is a separate tank or system installed with the sole purpose of evaporating water from the sludge?																0	5
	5822.10	Is a separate tank or system installed with the purpose of mixing the sludge while incinerated (in incinerator or boiler)																0	5
	5822.6	Alternative to 5822.8 - 5822.10 Is all the ship sludge always delivered to reception facilities?																0	20
											tal sco				0 40			0	30
	5900	Ship Recycling - Inventory of Hazardous Materials		0		Minin	num ra	inkin	ıg sco	re req	uired	ior e	lemen	ιτ 582	2 = 10				
	5900.10			•		•			+		_		•					0	110
	5900.10	Does the vessel have an "Inventory of Hazardous Materials" (Part I completed)?  Alternative to 5900.10: Has the process been started to prepare Part I of the "Inventory of Hazardous Materials" wit target completion date?	n a															0	40
	·			Total score 0 110									110						
			Minimum ranking score required for element 5900 = 40																

	CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK CA	RRIE	R -	VER	SIO	N 20	022										
Norm item	RANKING Ship - Bulk	MASTER	Doc. & Impl.	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING	Doc. & Impl.	CHIEF ENGINEER Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
6000	MAINTENANCE / SURVEYS																
6100	Programme of Inspections & Cargo Hold Inspection / Maintenance	0						•	0								
6100.1	Does the ship have an internal technical inspection programme?															0	10
6100.2	Are relevant previous survey and internal technical inspection reports available on board?															0	10
6100.3	Does the ship have a repair history?															0	10
6100.4	Does the company issue procedures/instructions for hull / ship's construction condition inspections to be carried out by the ship's personnel?															0	20
		Total score  Minimum ranking score required for element 6100 = 50											0	50			
			M	_	_	king s	score	requir	ed for	eleme	ent 61	100 = 5	50				
6110 6110.5	Critical and Stand-by Equipment  Is a Computer Based Program installed to register failures, break downs and near misses in order to have a constant	0		•	0											0	10
	event report on the systems?														-		
6110.7	Is a Computer Based Program installed for spare parts management of critical equipment and stand- by equipment?														-	0	10
6110.8	Is a safety stock available for critical equipment and stand-by equipment?				<u> </u>			Total	score							0	10 30
			М	nimur	n ran	king s	score		ed for		ent 61	110 = 1	10			-	30
6200	Mooring Equipment	0	•	)			0										
	mooring Equipment																
6200.1	Are winch brake tests carried out and recorded at least once a year or after an excessive load?															0	10
6200.1 6200.2																0	10 5
	Are winch brake tests carried out and recorded at least once a year or after an excessive load?																
6200.2	Are winch brake tests carried out and recorded at least once a year or after an excessive load?  Is a winch brake test kit on board?															0	5
6200.2 6200.3	Are winch brake tests carried out and recorded at least once a year or after an excessive load?  Is a winch brake test kit on board?  Is an overview available with all details of mooring wires / fibre ropes, winches, inspections, maintenance, tests etc?  Is the ship provided with information on the design of the mooring system? (with examples to show the loads likely to be experienced under particular conditions and to illustrate those situations under which the limit of the system is likely to be															0	5 10
6200.2 6200.3 6200.4	Are winch brake tests carried out and recorded at least once a year or after an excessive load?  Is a winch brake test kit on board?  Is an overview available with all details of mooring wires / fibre ropes, winches, inspections, maintenance, tests etc?  Is the ship provided with information on the design of the mooring system? (with examples to show the loads likely to be experienced under particular conditions and to illustrate those situations under which the limit of the system is likely to be reached)  Are inspection, maintenance and discard criteria for mooring wires and tails / fibre ropes established and carried out by a															0 0	5 10 10
6200.2 6200.3 6200.4 6200.5	Are winch brake tests carried out and recorded at least once a year or after an excessive load?  Is a winch brake test kit on board?  Is an overview available with all details of mooring wires / fibre ropes, winches, inspections, maintenance, tests etc?  Is the ship provided with information on the design of the mooring system? (with examples to show the loads likely to be experienced under particular conditions and to illustrate those situations under which the limit of the system is likely to be reached)  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 0 0	5 10 10
6200.2 6200.3 6200.4 6200.5 6200.8	Are winch brake tests carried out and recorded at least once a year or after an excessive load?  Is a winch brake test kit on board?  Is an overview available with all details of mooring wires / fibre ropes, winches, inspections, maintenance, tests etc?  Is the ship provided with information on the design of the mooring system? (with examples to show the loads likely to be experienced under particular conditions and to illustrate those situations under which the limit of the system is likely to be reached)  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)  Do these criteria take manufacturer's recommendations into account?  Does an additional examination take place after unusual events, such as long periods of inactivity, excessive loads, heat															0 0 0 0	5 10 10 10 10
6200.2 6200.3 6200.4 6200.5 6200.8 6200.9	Are winch brake tests carried out and recorded at least once a year or after an excessive load?  Is a winch brake test kit on board?  Is an overview available with all details of mooring wires / fibre ropes, winches, inspections, maintenance, tests etc?  Is the ship provided with information on the design of the mooring system? (with examples to show the loads likely to be experienced under particular conditions and to illustrate those situations under which the limit of the system is likely to be reached)  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)  Do these criteria take manufacturer's recommendations into account?  Does an additional examination take place after unusual events, such as long periods of inactivity, excessive loads, heat exposure, loading/discharge at swell ports, etc?  Are internal inspections for wires + fibre ropes carried out & do these inspections take manufacturer's recommendations															0 0 0 0 0 0	5 10 10 10 10 5
6200.2 6200.3 6200.4 6200.5 6200.8 6200.9	Are winch brake tests carried out and recorded at least once a year or after an excessive load?  Is a winch brake test kit on board?  Is an overview available with all details of mooring wires / fibre ropes, winches, inspections, maintenance, tests etc?  Is the ship provided with information on the design of the mooring system? (with examples to show the loads likely to be experienced under particular conditions and to illustrate those situations under which the limit of the system is likely to be reached)  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)  Do these criteria take manufacturer's recommendations into account?  Does an additional examination take place after unusual events, such as long periods of inactivity, excessive loads, heat exposure, loading/discharge at swell ports, etc?  Are internal inspections for wires + fibre ropes carried out & do these inspections take manufacturer's recommendations into account?															0 0 0 0 0	5 10 10 10 10 5
6200.2 6200.3 6200.4 6200.5 6200.8 6200.9 6200.10	Are winch brake tests carried out and recorded at least once a year or after an excessive load?  Is a winch brake test kit on board?  Is an overview available with all details of mooring wires / fibre ropes, winches, inspections, maintenance, tests etc?  Is the ship provided with information on the design of the mooring system? (with examples to show the loads likely to be experienced under particular conditions and to illustrate those situations under which the limit of the system is likely to be reached)  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)  Do these criteria take manufacturer's recommendations into account?  Does an additional examination take place after unusual events, such as long periods of inactivity, excessive loads, heat exposure, loading/discharge at swell ports, etc?  Are internal inspections for wires + fibre ropes carried out & do these inspections take manufacturer's recommendations into account?  Are the lubricants & cleaning products compatible with the wire and approved by the wire manufacturer?  Is a log for "workingdays" of mooring wires and tails / fibre ropes maintained? ( to predict the point of discard & for															0 0 0 0 0 0	5 10 10 10 10 5 10 5
6200.2 6200.3 6200.4 6200.5 6200.8 6200.9 6200.10 6200.11 6200.6	Are winch brake tests carried out and recorded at least once a year or after an excessive load?  Is a winch brake test kit on board?  Is an overview available with all details of mooring wires / fibre ropes, winches, inspections, maintenance, tests etc?  Is the ship provided with information on the design of the mooring system? (with examples to show the loads likely to be experienced under particular conditions and to illustrate those situations under which the limit of the system is likely to be reached)  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)  Do these criteria take manufacturer's recommendations into account?  Does an additional examination take place after unusual events, such as long periods of inactivity, excessive loads, heat exposure, loading/discharge at swell ports, etc?  Are internal inspections for wires + fibre ropes carried out & do these inspections take manufacturer's recommendations into account?  Are the lubricants & cleaning products compatible with the wire and approved by the wire manufacturer?  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 0 0 0 0 0 0	5 10 10 10 10 5 10 5

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK CA	RR	IER	- VEI	RSI	ON	202	22										
Revision Code	Norm item	RANKING Ship - Bulk	MASTER	Doc. & Impl.	CHIEF OFFICER	DOC: & IIIpi:	DECK OFFICER	Doc. & Impl.	Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl. NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	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	<u>Alternative to 6300.1</u> 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?															$\perp$	0	5
					Minimu	ım r	ankin	na scr		otal s		alomo	nt 63	00 -	40			0	70
	6400	Condition Assessment Program, Maintenance Additional Green Award requirements	0		0	11111	arikiri	ig scc	ore rec	O	1	Jeme	.nt 03	- 00 - ·	Ť				
	6400.1	Does the ship hold a CAP rating for <u>Hull</u> with Rating / Grade 2 as a minimum? (When the vessel reaches 15 years of age, or by the end of the 3rd special survey, whichever is earlier.)													T		T	0	25
	6400.8	Does the ship hold a CAP rating for <u>Cargo Systems</u> with Rating / Grade 2 as a minimum? (When the vessel reaches <u>15 years</u> of age, or by the end of the <u>3rd special survey</u> , whichever is earlier.)																0	20
	6400.9	Does the ship hold a CAP rating for Machinery with Rating / Grade 2 as a minimum? (When the vessel reaches 15 years of age, or by the end of the 3rd special survey, whichever is earlier.)																0	20
	6400.2	(Alternative to 6400.1, 6400.8 and 6400.9 above) Is the ship less than 15 years of age or has not reached the end of the 3rd special survey yet?	:															0	25
	6400.3	Is it company policy that maintenance meetings are carried out on board? (e.g. each month and at (all) sections on board)																0	10
	6400.4	Is a maintenance checklist used regarding the (monthly) maintenance inspection?																0	10
	6400.5	Is an evaluation report of vessel's performance sent to the company?																0	20
	6400.6	Is an annual technical report made by the Company's superintendent?																0	15
					Minimu	100 5	onkin			otal s		olomo	nt 64	00 -	60			0	120
	6500	Certificates for Cargo Gear	0		0	111111	alikili	ig scc	ore rec	o		Sieille	ant 04		T				
	6500.1	Is a register of cargo handling gear and lifting appliances issued? (CG1)	Ť			+				Ť					-		+	0	10
	6500.2	Is a certificate of test and thorough examination of lifting appliances issued? (CG2)				+		$\dashv$		1					$\dashv$		+	0	10
	6500.3	Is a certificate of test and thorough examination of loose gear issued? (CG3)				Ŧ				1				-	$\dashv$	_		0	10
	6500.4	Is a certificate of test and thorough examination of wire rope issued? (CG4)				$\dagger$				1					$\dashv$		+	0	10
										otal s						_		0	40
					Minimu	um ra	ankin	ng sco	ore rec	_	_	eleme	nt 65	00 =	40				
	6600	Bulk Carrier Practice			0	4		4		0					4		4		
	6600.1	Are sufficient spare parts for hatch covers on board? (rubber gaskets, fittings, cleats etc.)				+		-		1					$\dashv$			0	20
	6600.2	Has the number of spare parts required increased as the ship grows older?	1			+		-		-					$\dashv$		+	0	20
	6600.3	Are hold bilges tested at appropriate intervals? (suction non-return valves, high level alarms, cleanliness of bilge wells)	1			+		+		+					$\dashv$		+	0	10
	6600.4	Is weathertightness of hatches tested at appropriate intervals? (e.g. hose test, chalk test, ultrasonic test, visual)	-						To	otal s	core						丄	0	10 60
	I								ore rec									v	UU

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK CA	RRI	ER	- VE	RSI	ON 2	2022	2									
Revision Code	Norm item	RANKING Ship - Bulk	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER Doc. & Impl.	DECK RATING	Doc. & Impl.	CHIEF ENGINEER	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	7000	CREW																
	7200	Extra personnel, Additional Green Award Requirement	0							0								
	7200.1	Are there extra deck officers onboard in addition to what is required by minimum safe manning document?															0	10
	7200.7	Are there extra engine officers onboard in addition to what is required by minimum safe manning document?															0	10
	7200.2	Are there extra deck ratings onboard in addition to what is required by minimum safe manning document?															0	10
	7200.8	Are there extra engine ratings onboard in addition to what is required by minimum safe manning document?															0	10
	7200.3	Is there a ship administrator onboard (In addition to the standard complement and extra deck-officers and -ratings above) ?															0	10
	7200.6	Is there an electrical officer onboard in addition to the engine officers required by the safe manning document?															0	10
					Minin	011100 F	onkine			al score		ont 70	200 -	20			0	60
	7300	Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses	0		IVIIIII	iuiii i	anking	SCOI	e requ	iireu io	releili	lent 72	200 =	20				
	7300.4	Have the lower ranking deck officers completed advanced fire fighting (IMO2.03) ?	•											4			0	5
	7300.4	Have the lower ranking deck officers completed advanced fire fighting (IMO2.03) ?												-+			0	5
	7300.5	Has the onboard management completed the onboard assessment/train the trainer course (IMO 1.30)?												$\dashv$			0	5
	7300.6	Have the officers involved in cargo and ballast handling completed a simulator based training/course?												-			0	10
	7300.7	Have the ship personnel completed "Marine Environmental Awareness" course (IMO 1.38)?												一			0	5
	7300.8	Have all the deck officers completed bridge team management/bridge resource management training course (IMO 1.22)?															0	5
	7300.19	Have all the engine officers completed engine room resource management training course?															0	5
	7300.20	Alternative to 7300.8 & 7300.19 Have all the officers completed maritime resource management course?															0	10
	7300.10	Is there a cadet currently onboard or has there been any in the last 6 months?															0	10
	7300.17	Have all the officers completed Security Awareness Training?															0	5
										al score							0	55
		<u> </u>			Minin	num r	anking	scor	e requ	ired fo	r elem	ent 73	300 =	20				

Familiarisation, Additional Green Award Requirement  7400.1 Familiarisation, Additional Green Award Requirement  7400.2 Familiarisation, Additional Green Award Requirement  7400.1 Familiarisation, Additional Green Award Requirement  7400.2 Familiarisation, Additional Green Award Requirement  7400.1 Familiarisation, Additional Green Award Requirement  7400.2 Familiarisation, Additional Green Award Requirement  7400.1 Familiarisation, Additional Green Award Requirement  7400.2 Familiarisation, Additional Green Award Requirement  7400.1 Familiarisation, Additional Green Award Requirement  7400.1 Familiarisation, Additional Green Award Requirement  7400.1 Familiarisation, Award Requirement  7400.1 Familiarisation, Award Requirement Reports for familiarisation with previous distinguish potential of manufacture awards specific regiments awards to a manufacture for manufacture awards awards specific regiments awards awards specific regiments awards awards specific regiments awards awards specific familiarisation with previous distinguish previous distinguish familiarisation with previous distinguish			CHECKLIST DANIVING CRITERIA CHIR CHRISTY DULLY CA	DD	IED	\/F	-DC	101	1.20	22										
Familiarisation, Additional Green Award Requirement  7400.1 Have all the ship board crew after a period of absence or leave has been provided with familiarization of changes with Have all the ship board crew after a period of absence or leave has been provided with familiarization of changes with Have all newly employed engaged shipboard crew (first ship for that specific company) been provided with familiarization with regard to periodine/machinery within its related to their position?  7400.2 Have all newly employed engaged shipboard crew (first ship for that specific company) been provided with familiarization with regard to generative its regard to generate the specimen of			CHECKLIST - KANKING CRITERIA - SHIP SUKVEY - BULK CA	Įį																
Heve all the ship board crew after a period of absence or leave has been provided with familiarization of changes with segart to the operations/machinery which is related to their position?  7400.2 7400.2 Are the company format handover reports from all off - signing officers available onboard?  7400.1 In those cases when junior or senior officers are transferred to another class of ship that differ considerably from where their experience lae, is an orrhoand specific familiarisation with previous off-agining officers implemented for a specific minimum period?  7400.1 Are the company format handover reports from all off - signing officers available onboard?  7400.7 Are the on-signers aware of the content of the hand-over reports?  7400.7 Are the on-signers aware of the content of the hand-over reports?  7400.7 Are the on-signers aware of the content of the hand-over reports?  7500.1 Safe Manning and Fatigue Management  7500.1 Safe Manning and Fatigue Management  7500.1 Safe Manning and Fatigue Management  7500.2 Safe Manning and Fatigue Management  7500.2 Safe Manning and Fatigue Management  7500.3 Safe Manning and Fatigue Management  7500.4 Safe work/rest hours performed by the individual seafarer recorded with the use of a software programme and the reports generated accessible for the office?  7500.2 Safe Manning and Fatigue management  7500.5 Safe Manning and Fatigue Management  7500.6 Safe Manning and Fatigue Management  7500.7 Safe manning work/rest hours  7500.7 Safe manning work/rest hours  7500.8 Safe Manning and Fatigue Management  7500.9 Safe Manning and Fatigue Management  7500.0 Safe Manning and Fatigue Management  7500.0 Safe Manning and Fatigue Management  7500.1 Safe manning work/rest hours onboard?  87500.2 Safe Manning and Fatigue Management  7500.3 Safe Manning and Fatigue Management  7500.4 Safe manning and Fatigue Management  7500.5 Safe Manning and Fatigue Management  7500.6 Safe manning and Fatigue Management  7500.7 Safe manning and Fatigue Management  7500.7 Safe manning and Fatigue Man	Revision Code	Norm item		MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl. NOT APPLICABLE	RANKING SCORE	MAX.
regard to the operations/machinery which is related to their position?  7400.2 with regard to perations/machinery which is related to their position?  7400.1 which are all newly employed/oragoad shipboard crew (first ship for that specific company) been provided with familiarization with regard to operations/machinery which is related to their position?  7400.1 to those cases when junior or search officers are transferred to another class of ship that differ considerably from where their experience le, is an onboard specific familiarisation with previous off-signing officers implemented for a specific minimum period?  7400.1 Are the company format handover reports from all off - signing officers available onboard?  7500.2 Safe Manning and Fatigue Management  A. General - managing work/rest hours  7500.2 Safe Manning and Fatigue Management  A. General - managing work/rest hours  7500.2 In the work/rest hours performed by the individual seafarer recorded with the use of a software programme and the reports generated accessible for the office?  7500.2 Is the master provided with instruction/procedure to monitor and address non compliance on STCW 2010 Manila another instruction of the management of the flowing (both):  7500.9 Soste 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 seastherers?  7500.9 Internetion to assess the hazards associated with fatigue (hazard assessment)  7500.1 Soste the fatigue mitigation and control strategy consist of the following (both):  7500.1 Soste the ship have fatigue and sleepiness ratings  7500.2 See the ship have provided with instruction of the following fatigue management tools (as described in IMO MSC). Clicrifically suphapard crew on board:  7500.1 Soste the ship have a procedure in which crew members are able to report to a design	74	400	Familiarisation, Additional Green Award Requirement	0		0		0		0	0		0		0		0			
with regard to operations/machinery which is related to their position?  740.10  740.10  740.10  740.41  740.42  740.42  740.43  740.43  740.44  740.45  740.45  740.45  740.45  740.46  740.47  740.46  740.47  740.46  740.47  740.4	74	400.1						'											0	20
Table 10   Table   T	74	400.2																	0	20
7400.7 Are the on-signers aware of the content of the hand-over reports?  7500 Safe Manning and Fatigue Management  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  7500.1 Is the master provided with instruction/procedure to monitor and address non compliance on STCW 2010 Manila amendments on work/rest hours onboard?  8. Fatigue management  Does the ship have fatigue mitigation and control strategy (or similar document) available within the Safety Management  Special Possible of the office?  Does the fatigue mitigation and control strategy consist of the following (both): - transevork to assess the hazards associated with fatigue (hazard assessment) - strategies to mitigate the risk of fatigue (risk mitigation)  Does the Master implement the use of any one of the following fatigue management tools (as described in IIMO  MSC-1/Circ Fably by shipboard crew on board: - Selep Diary - Selep Diary - Fatigue self-assessment tool - Fatigue self-assessment tool - Fatigue self-assessment tool - Fatigue self-assessment tool - Fatigue event reporting - Fatigue self-assessment tool - Fatigue event reporting - Does the ship have a procedure in which crew members are able to report to a designated person on fatigue related - Selep Diary - Selep Diary - Selep Diary - Selep Diary - Selem control reporting - Does the ship have a procedure in which crew members are able to report to a designated person on fatigue related - Selep Diary	74	400.10	their experience lie, is an onboard specific familiarisation with previous off-signing officers implemented for a specific																0	10
7500 Safe Manning and Fatigue Management  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? 7500.2 Is the master provided with instruction/procedure to monitor and address non compliance on STCW 2010 Manila mandements on work/rest hours onboard?  B. Fatigue management  7500.5 System (SMS) to ensure the health and well being of the seafarers?  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?  Does the fatigue mitigation and control strategy consist of the following (both): - framework to assess the hazards associated with fatigue (hazard assessment) - strategles to mitigate the risk of fatigue (risk mitigation)  Does the Master implement the use of any one of the following fatigue management tools (as described in IMO MSC.1/Circ16598) by shipboard crew on board: - Sieep Diary - Sele-monitoring through fatigue and sleepiness ratings - Fatigue self-assessment tool - Fatigue self-assessment tool - Fatigue event reporting  C. Additional questions - reporting, training & awareness  Does the ship have a procedure in which crew members are able to report to a designated person on fatigue related sissues without fearing any action against them for such communication?  Do all shipboard crew members undergo company fatigue management training and awareness campaigns on an initial and recurrent basis?  Total score  Total score  8	74	400.4	Are the company format handover reports from all off - signing officers available onboard?																0	10
7500. Safe Manning and Fatigue Management  A. General - managing work/rest hours  7500.1 A. General - managing work/rest hours  7500.2 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?  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?  8. Fatigue management  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?  Does the fatigue mitigation and control strategy consist of the following (both):  - framework to assess the heazard associated with fatigue (hazard assessment)  - strategies to mitigate the risk of fatigue (risk mitigation)  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 self-assessment tool - Fatigue self-assessment reporting  C. Additional questions - reporting, training & awareness  7500.1 Does the ship have a procedure in which crew members are able to report to a designated person on fatigue related and recurrent basis?  Total score  Total score  Total score  Total score  Total score  Total score	74	400.7	Are the on-signers aware of the content of the hand-over reports?																0	10
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? 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? 8. Fatigue management 8. Fatigue management 9. 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? 9. System (SMS) to ensure the health and well being of the seafarers? 9. Total seafarers on the seafarers of the seafarers on the seafarers of the seafarer of the seafarers of the seafarer of the seafarers of the seaf																			0	70
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?  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?  B. Fatigue management  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?  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)  Does the Master implement the use of any one of the following fatigue management tools (as described in IMO MSC.1/Circ.1598) by shipboard crew on board: - Seler Doilor Seler Master implement the use of any one of the following fatigue management tools (as described in IMO MSC.1/Circ.1598) by shipboard crew on board: - Seler monitoring through fatigue and sleepiness ratings - Fatigue self-assessment tool - Fatigue event reporting  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?  Do all shipboard crew members undergo company fatigue management training and awareness campaigns on an initial and recurrent basis?  Total score  Total score						Minir	mum	rankii	ng so	ore re	quirec	for (	eleme	ent 74	400 =	50				
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?  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?  B. Fatigue management  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?  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)  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  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?  7500.11 Do all shipboard crew members undergo company fatigue management training and awareness campaigns on an initial and recurrent basis?  Total score  Total score  Total score	75	500		0																
Sound   generated accessible for the office?			A. General - managing work/rest hours																_	
### Association of the Surgery of Source of the Surgery of Source of the Surgery of Source of Surgery of Source of Surgery of Source of Surgery of Source of Surgery	75	500.1	generated accessible for the office?																0	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?  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)  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 event reporting  C. Additional questions - reporting, training & awareness  T500.7  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?  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?  Do all shipboard crew members undergo company fatigue management training and awareness campaigns on an initial and recurrent basis?  Total score  Total score  Total score	75	500.2																	0	10
7500.5 System (SMS) to ensure the health and well being of the seafarers?  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)  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 event reporting  C. Additional questions - reporting, training & awareness  Tool.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?  Do all shipboard crew members undergo company fatigue management training and awareness campaigns on an initial and recurrent basis?  Total score  Total score  Total score			B. Fatigue management																	
7500.9 - framework to assess the hazards associated with fatigue (hazard assessment) - strategies to mitigate the risk of fatigue (risk mitigation)  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  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?  Do all shipboard crew members undergo company fatigue management training and awareness campaigns on an initial and recurrent basis?  Total score  15  15  16  17  17  17  17  17  18  19  10  11  15  15  16  17  17  18  19  10  11  15  16  17  17  18  18  19  10  11  15  16  17  17  18  18  19  19  10  11  15  15  16  17  17  18  18  19  19  10  11  11  11  12  13  14  15  15  15  16  17  18  18  19  19  19  10  11  11  11  11  12  13  14  15  15  15  15  15  15  15  15  15	RR <b>7</b> 5	500.5																	0	30
MSC.1/Circ1598) by shipboard crew on board: - Sleep Diary - Self-monitoring through fatigue and sleepiness ratings - Fatigue eyent reporting  C. Additional questions - reporting, training & awareness  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?  7500.11 Do all shipboard crew members undergo company fatigue management training and awareness campaigns on an initial  Total score  0 85	RR <b>7</b> 5	500.9	- framework to assess the hazards associated with fatigue (hazard assessment)																0	15
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?  Total score  Total score  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?  Do all shipboard crew members undergo company fatigue management training and awareness campaigns on an initial and recurrent basis?  Total score  Total score	RR <b>7</b> \$	500.10	MSC.1/Circ1598) by shipboard crew on board: - Sleep Diary - Self-monitoring through fatigue and sleepiness ratings - Fatigue self-assessment tool																0	15
issues without fearing any action against them for such communication?  Total score			C. Additional questions - reporting, training & awareness																	
7500.11 and recurrent basis? 0 5 Total score 0 85	75	500.7																	0	5
	75	500.11																	0	5
		-		Total score  Minimum ranking score required for element 7500 = 60										85						

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			CHECKLIST - RANKING CRITERIA - SHIP SURVEY - BULK CA	٩RR	IER	- V	ERS	101	1 20	22										
Revision Code	Norm item	GREEN AWARD	RANKING Ship - Bulk	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl.	~	KANKING SCORE	RANKING MAX. SCORE
	9000	REQUIREMENTS ACCORDING TO ISO	O Standards																	
	9421	ISO Certification																		
	9421.1	Is the ship certified for the latest edition	of ISO 9001 (quality management systems)?																0	10
	9421.2	Is the ship certified for the latest edition and people development)?	of ISO 10015 (quality management – guidelines for competence management																0	10
	9421.3	Is the ship certified for the latest edition	of ISO 14001 (environmental management systems)?																0	10
	9421.4	Is the ship certified for the latest edition	of ISO 22301 (societal security – business continuity management systems)?																0	10
	9421.5	Is the ship certified for the latest edition	of ISO 27001 (information security management systems)?																0	10
	9421.6	Is the ship certified for the latest edition	of ISO 30401 (knowledge management systems – requirements)?																0	10
	9421.7	Is the ship certified for the latest edition	of ISO 45001 (occupational health and safety management systems)?																0	10
	9421.8	Is the ship certified for the latest edition	of ISO 50001 (energy management systems)?																0	10
						la et a e					otal sc			-1.040	4 6				0	80
						Mini	mum	rank	ıng so	ore re	equired	tor el	emer	nt 942	1 = 0					

	CHECKLIST - RANKING CRITERIA - SURVEY - BULK CARRIER - VERSION 2022				
Norm item	TOTAL SCORE REVIEW SHIP SURVEY - BULK CARRIER	SHIP'S 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	10	
1510	Emergency Oil Recovery	0	10	0	
1600	Computer Systems, Networks, Data Security and Training	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	
2110	Electronic chart display & information systems / ECDIS	0	0	0	
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	
3300	On-shore Power Supply	0	25	0	
4000	CARGO OPERATIONS				
4500	Hull Stress Monitoring System	0	20	0	
4601	Preparation of loading / unloading plan	0	90	70	
4602	Cargo handling and operations	0	170	130	
4603	Safe work facilities during cargo operations	0	50	50	
4604	Communication during cargo operations, GA requirement for all cargoes	0	40	40	
4605	Inspections during cargo operations	0	70	40	
4606	Safety precautions during cargo operations	0	40	20	
4800	Cargo Operations, Additional Green Award requirements	0	70	0	
5000	PREVENTION OF POLLUTION				
5100	Biofouling Management	0	30	5	
5200	Waste Management / Garbage Handling Onboard	0	150	70	
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	
5441	Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion	0	35	0	

TOTAL SCORE REVIEW SHIP SURVEY - BULK CARRIER  ### 1900		CHECKLIST - RANKING CRITERIA - SURVEY - BULK CARRIER - VERSION 2022				
5500         Sewage Management         6 1 5 5 20 0         70 0           5510         Grey Water Management (AlWM)         0 25 0 0         10 0           5500         Ballast Water Management (BWM)         0 8 5 0 0         10 0           5800         Accidental Bunker Oil Pollution Prevention Measures (overflow prevention systems)         0 10 0 0         20 0 0         10 0           5801         Protection of fuel oil tanks, lube oil tanks and hull         0 6 0 0         60 0         15 0           5811         Mooring wire lubrication         0 6 0 0         60 0         15 0         10 0           5812         Deck equipment lubrication (use of oils)         0 6 0 0         15 0         15 0         15 0           5821         Deck quipment lubrication (use of oils)         0 6 0 0         15 0         15 0         15 0         15 0           5821         Deck quipment lubrication (use of oils)         0 0 0         0 0         0 0         2 0         0 0         15 0 </th <th>Norm item</th> <th></th> <th>SHIP'S RANKING SCORE</th> <th>MAXIMUM OBTAINABLE RANKING SCORE</th> <th>MINIMUM RANKING SCORE REQUIRED</th> <th>MITH</th>	Norm item		SHIP'S RANKING SCORE	MAXIMUM OBTAINABLE RANKING SCORE	MINIMUM RANKING SCORE REQUIRED	MITH
5510         Grey Water Management         0         25         0           5700         Ballast Water Management (BWM)         5         50           5700         Ballast Water Management (BWM)         3         5           5801         Accidental Bunker Oil Pollution Prevention Measures (overflow prevention systems)         1         3         5           5801         Protection of fuel oil tanks, lube oil tanks and hull         0         6         10         10         20           5811         Mooring wire lubrication         0         2         0         15         15           5812         Deck equipment lubrication (use of oils)         0         2         0         15         15           5820         Management of bilge water and sludge handling onboard         0         7         7         15           5821         Outfitting of sludge handling system         0         7         7         15           5822         Outfitting of sludge handling system         0         3         10         1         15         15           5820         Mantraworter yestem         0         1         3         1         1         1         1         1         1         1         1         1	5460	Environmental Ship Index (ESI)	0	60	0	
5700         Ballast Water Management (BWM)         8 5         50           5800         Accidental Bunker Oil Pollution Prevention Measures (overflow prevention systems)         0         30         50           5801         Protection of fuel oil tanks, lube oil tanks and hull         0         0         20         20           5810         Stern tube lubrication         0         0         0         15         15           5811         Mooring wire lubrication         0         0         20         0         0           5812         Deck equipment lubrication (use of oils)         0         0         20         0         0           5820         Management of bilge water and sludge handling onboard         0         0         15         15           5821         Outfitting of bilge water system         0         0         10         20         10         20           5822         Outfitting of bilge water and sludge handling system         0         0         10         40         10         10         20           5822         Outfitting of sludge handling system         0         0         10         40         10         40         10         40         10         10         10         10	5500	Sewage Management	0	55	20	
5800         Accidental Bunker Oil Pollution Prevention Measures (overflow prevention systems)         30         50         10         20         10         20         10         20         10         20         10         20	5510	Grey Water Management	0	25	0	
5811         Protection of fuel oil tanks, lube oil tanks and hull         10         10         20         10           5810         Stern tube lubrication         0         60         15         15           5811         Mooring wire lubrication         0         60         15         16           5812         Deck equipment lubrication (use of oils)         0         65         0         15         16         15	5700	Ballast Water Management (BWM)	0	85	50	
Stem tube lubrication   0	5800	Accidental Bunker Oil Pollution Prevention Measures (overflow prevention systems)	0	30	5	
Mooring wire lubrication (use of oils)   20   0   0   0   0   0   0   0   0	5801	Protection of fuel oil tanks, lube oil tanks and hull	0	100	20	
5812         Deck equipment lubrication (use of oils)         65         0         1           5820         Management of bilge water and sludge handling onboard         0         15         15         15           5821         Outfitting of bilge water system         0         70         20         10           5822         Outfitting of bilge handling system         0         110         40         1           5800         Ship Recycling - Inventory of Hazardous Materials         0         110         40         1           6000         MAINTENANCE / SURVEYS         50         50         50         1           6110         Critical and Stand-by Equipment         0         50         50         50           6110         Critical and Stand-by Equipment         0         95         65         1           6200         Mooring Equipment         0         95         65         1           6300         Corrosion Prevention of Seawater Ballast Tanks         0         70         40         1           6400         Condition Assessment Program, Maintenance Additional Green Award requirements         0         0         120         60         1           6500         Certificates for Cargo Gear         0	5810	Stern tube lubrication	0	60	15	
5520         Management of bilge water and sludge handling onboard         1 0         1 5         1 5           5821         Outfitting of bilge water system         0         70         20         1 0           5822         Outfitting of sludge handling system         0         30         10         30         10           5800         Ship Recycling - Inventory of Hazardous Materials         0         30         10         40         30         10         40         30         10         40         30         10         40	5811	Mooring wire lubrication	0	20	0	
5821         Outfitting of bilge water system         0         70         20         1           5822         Outfitting of sludge handling system         0         30         10         10           5900         Ship Recycling - Inventory of Hazardous Materials         0         110         40         10           6000         MAINTENANCE / SURVEYS	5812	Deck equipment lubrication (use of oils)	0	65	0	
5822         Outfitting of sludge handling system         30         10         10           5900         Ship Recycling - Inventory of Hazardous Materials         0         110         40         10           6000         MAINTENANCE / SURVEYS         ***********************************	5820	Management of bilge water and sludge handling onboard	0	15	15	
5900         Ship Recycling - Inventory of Hazardous Materials         10         40         10           6000         MAINTENANCE / SURVEYS           6110         Programme of Inspections & Cargo Hold Inspection / Maintenance         0         50         50         50           6110         Critical and Stand-by Equipment         0         30         10         6           6200         Mooring Equipment         0         95         65         6           6300         Corrosion Prevention of Seawater Ballast Tanks         0         95         65         6           6400         Condition Assessment Program, Maintenance Additional Green Award requirements         0         120         60         120         60         120         60         120         60         120         60         120         60         120         60         120         60         120         60         120         60         120         60         120         60         120         60         120         60         20         60         20         60         20         60         20         60         20         60         20         60         20         60         20         60         20         60	5821	Outfitting of bilge water system	0	70	20	
6000         MAINTENANCE / SURVEYS           6100         Programme of Inspections & Cargo Hold Inspection / Maintenance         0         50         50         1           6110         Critical and Stand-by Equipment         0         30         10         1           6200         Mooring Equipment         0         95         65         1           6300         Corrosion Prevention of Seawater Ballast Tanks         0         70         40         1           6400         Condition Assessment Program, Maintenance Additional Green Award requirements         0         120         60         1           6500         Certificates for Cargo Gear         0         40 <t< td=""><td>5822</td><td>Outfitting of sludge handling system</td><td>0</td><td>30</td><td>10</td><td></td></t<>	5822	Outfitting of sludge handling system	0	30	10	
6100         Programme of Inspections & Cargo Hold Inspection / Maintenance         0         50         50           6110         Critical and Stand-by Equipment         0         30         10	5900	Ship Recycling - Inventory of Hazardous Materials	0	110	40	
6110         Critical and Stand-by Equipment         0         30         10         1           6200         Mooring Equipment         0         95         65         1           6300         Corrosion Prevention of Seawater Ballast Tanks         0         70         40         1           6400         Condition Assessment Program, Maintenance Additional Green Award requirements         0         120         60         1           6500         Certificates for Cargo Gear         0         40         40         40         40           6600         Bulk Carrier Practice         0         60         30         1           7000         CREW         5         20         1           7200         Extra personnel, Additional Green Award Requirement         0         60         20         1           7300         Training / Courses for Personnel, Additional Green Award Requirements         0         55         20         1           7400         Familiarisation, Additional Green Award Requirement         0         85         60         1           7500         Safe Manning and Fatigue Management         0         85         60         1           9000         REQUIREMENTS ACCORDING TO ISO Standards         0	6000	MAINTENANCE / SURVEYS				
6200       Mooring Equipment       0       95       65         6300       Corrosion Prevention of Seawater Ballast Tanks       0       70       40         6400       Condition Assessment Program, Maintenance Additional Green Award requirements       0       120       60         6500       Certificates for Cargo Gear       0       40       40         6600       Bulk Carrier Practice       0       60       30         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	6100	Programme of Inspections & Cargo Hold Inspection / Maintenance	0	50	50	
6300         Corrosion Prevention of Seawater Ballast Tanks         0         70         40         640           6400         Condition Assessment Program, Maintenance Additional Green Award requirements         0         120         60         60           6500         Certificates for Cargo Gear         0         40         40         60           6600         Bulk Carrier Practice         0         60         30         0           7000         CREW         0         60         20         0           7200         Extra personnel, Additional Green Award Requirement         0         60         20         0           7300         Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses         0         55         20         0           7400         Familiarisation, Additional Green Award Requirement         0         70         50         0           7500         Safe Manning and Fatigue Management         0         85         60         0           9000         REQUIREMENTS ACCORDING TO ISO Standards         0         80         0         0	6110	Critical and Stand-by Equipment	0	30	10	
Condition Assessment Program, Maintenance Additional Green Award requirements  Condition Assessment Program, Maintenance Additional Green Award requirements  Condition Assessment Program, Maintenance Additional Green Award Requirement  Condition Assessment Program, Maintenance Additional Green Award Requirement  Condition Assessment Program, Maintenance Additional Green  Condition Assessment Program, Maintenance Additional Green  Condition Assessment Program, Maintenance Additional Green  Condition Additional Green  Condition Assessment Program, Maintenance Additional Green  Condition Additional Green  Condition Additional Green  Condition	6200	Mooring Equipment	0	95	65	
Certificates for Cargo Gear   0	6300	Corrosion Prevention of Seawater Ballast Tanks	0	70	40	
6600Bulk Carrier Practice060307000CREW7200Extra personnel, Additional Green Award Requirement060207300Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses055207400Familiarisation, Additional Green Award Requirement07050107500Safe Manning and Fatigue Management0856010900REQUIREMENTS ACCORDING TO ISO Standards9421ISO Certification080080	6400	Condition Assessment Program, Maintenance Additional Green Award requirements	0	120	60	
7000CREW7200Extra personnel, Additional Green Award Requirement060207300Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses055207400Familiarisation, Additional Green Award Requirement070507500Safe Manning and Fatigue Management085609000REQUIREMENTS ACCORDING TO ISO Standards9421ISO Certification0800	6500	Certificates for Cargo Gear	0	40	40	
Extra personnel, Additional Green Award Requirement  Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses  Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses  Familiarisation, Additional Green Award Requirement  To Safe Manning and Fatigue Management  To Safe Manning and Fatigue Management	6600	Bulk Carrier Practice	0	60	30	
Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses  7400 Familiarisation, Additional Green Award Requirement  7500 Safe Manning and Fatigue Management  7500 REQUIREMENTS ACCORDING TO ISO Standards  7501 Safe Manning and Fatigue Management  7502 Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses  7503 Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses  7504 Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses  7505 Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses  7506 Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses  7507 Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses  7508 Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses  7509 Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses  7509 Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses  7500 Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses  7500 Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses  7500 Training / Courses for Personnel, Additional Green Award Requirements  7500 Training / Courses for Personnel, Additional Green Award Requirements  7500 Training / Courses for Personnel, Additional Green Award Requirements  7500 Training / Course for Personnel, Additional Green Award Requirements  7500 Training / Course for Personnel, Additional Green Award Requirements  7500 Training / Course for Personnel, Additional Green Award Requirements  7500 Training / Course for Personnel, Additional Green Award Requirements  7500 Training / Course for Personnel, Additional Green Award Requirements  7500 Training / Course for Personnel, Additional Green Award Requirements  7500 Training / Course for Person	7000	CREW				
Familiarisation, Additional Green Award Requirement  7400 Familiarisation, Additional Green Award Requirement  7500 Safe Manning and Fatigue Management  7600 REQUIREMENTS ACCORDING TO ISO Standards	7200	Extra personnel, Additional Green Award Requirement	0	60	20	
7500 Safe Manning and Fatigue Management 0 85 60 9000 REQUIREMENTS ACCORDING TO ISO Standards 9421 ISO Certification 0 80 0 900 900 900 900 900 900 900 900	7300	Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses	0	55	20	
9000 REQUIREMENTS ACCORDING TO ISO Standards 9421 ISO Certification 0 80 0	7400	Familiarisation, Additional Green Award Requirement	0	70	50	
9421 ISO Certification 0 80 0	7500	Safe Manning and Fatigue Management	0	85	60	
	9000	REQUIREMENTS ACCORDING TO ISO Standards				
TOTAL SCORES 0 3650 1620	9421	ISO Certification	0	80	0	
		TOTAL SCORES	0	3650	1620	

#### LEGEND

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

<sup>\*</sup> 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".

#### **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
Electricity generation
TIER
Questions applicable (from 5410.11 - 5410.18)
NA

Questions applicable (from				
For DIESEL-ELECTRIC & DUAL FUEL (LNG / LPG) data, use "OTI		lules below	1	
MAIN ENGINE 1	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 Compliand	ce		
MAIN ENGINE 2	NA→		RPM	
<u> </u>	1.0.17	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 Compliano			
AUXILIARY ENGINE 1	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 Compliand	ce		
AUVILLA DV. FALOINE A			RPM	
AUXILIARY ENGINE 2	NA→	Ti 4		Tion 0
F. H. NO F. W. ( MAN)		Tier 1	Tier 2	Tier 3
Applicable NOx emission limit (g/kWh)				
ingine's actual NOx emission value (g/kWh)				
Percentage reduction	CA Compliant	NA	NA	NA
	GA Compliand	ce		
AUXILIARY ENGINE 3	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 Compliand			
			-	
AUXILIARY ENGINE 4	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 Compliand	ce		

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#### **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 DIESEL ENGINE Electricity generation TIER NA Questions applicable (from 5410.11 - 5410.18) NA

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 Compliand	e		
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 Compliand	e		
OTHER ENGINE	NA→		RPM	
OTHER ENGINE	NA-7	Tier 1	Tier 2	Tier 3
Applicable NOV enriceing limit (ell/M/h)		i iei i	Hei Z	i iei 3
Applicable NOx emission limit (g/kWh)				
Engine's actual NOx emission value (g/kWh)				
Percentage reduction		NA	NA	NA
	GA Compliand	e		

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#### **SUPPLEMENT TO 5440 GHG EMISSIONS - CO2**

## **ENERGY EFFICIENCY TECHNOLOGIES INFORMATION PORTAL**

GA Code: **TECHNOLOGY GROUPS** Ship name:

**IMO GLOMEEP Website** 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 autotuning, 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

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#### **SUPPLEMENT TO 5440 GHG EMISSIONS - CO2**

#### 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.

Υ?	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

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#### **SUPPLEMENT TO 5440 GHG EMISSIONS - CO2**

#### **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)
	<u>Flettner rotors</u>	Use Flettner rotors to generate power from wind energy	Not mature	Dependent on trading area and sufficient free deck-surface
	<u>Kite</u>	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.

Υ?	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.

Proven, new or existing technology/principle, but with limited uptake across the

Semi-mature industry.

Not mature New unproven-, unproven existing- , or proven existing technology/principle but

with very few installations and little to no operational experience.

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View disclaimer

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<sup>\*</sup>This Information Portal is still under development and further images will be added.

# **APPENDIX 5**

CHECKLIST - VISUAL INSPECTION - SURVEY - BULK CARRIER (BMC-10)

	Green Award Visual Inspection - Bulk Carrier					
Check Box	Norm item	GREEN AWARD	Inspection Focus	Remarks		
	10100	Machinery				
		Reports				
		Classification reports	Survey reports with recommendations and conditions of class, repairs			
		State Authority reports	Survey reports, recommendations			
		Company Reports	Inspection, repair, maintenance, planning, dry-dock reports by ship's staff and superintendents			
		Inspection guidelines	Guidelines on the means of access to structures for inspection and maintenance of bulkers			
		Other reports	Vetting reports by chartering companies and independent surveyors			
	10102	Engine Room				
		Overall tidyness of E.R. space	Unsecured and loose material, tools and E.R. spare-parts			
		General cleanliness of E.R.	Oil- & gas-free enviroment			
		Storage E.R. equipment	Equipment stored at designated places			
		Handling of general E.R. waste	General waste stored & handled properly			
		Indication of E.R. emergency escapes	Clearly visible and not obstructed			
		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			
	10102.7					
		Lub. Oil system	Filters and save-alls, purifiers condition			
	10103.8	Starting air system	Condition of starting air lines and valves			
	10103.8 10103.9	Starting air system Cooling water system				
	10103.8 10103.9 <b>10104</b>	Starting air system Cooling water system Auxiliary Engines	Condition of starting air lines and valves			
	10103.8 10103.9 <b>10104</b> 10104.1	Starting air system Cooling water system Auxiliary Engines General performance	Condition of starting air lines and valves Condition of expansion bellows			
	10103.8 10103.9 <b>10104</b> 10104.1 10104.2	Starting air system Cooling water system Auxiliary Engines General performance Leakage, condition of fuel oil, lub. oil lines	Condition of starting air lines and valves Condition of expansion bellows  Cracks, corrosion and / or pipes connections not tight			
	10103.8 10103.9 10104 10104.1 10104.2 10104.3	Starting air system Cooling water system Auxiliary Engines General performance Leakage, condition of fuel oil, lub. oil lines Auxiliary Engine bilge	Condition of starting air lines and valves Condition of expansion bellows  Cracks, corrosion and / or pipes connections not tight Oil-, water-, corrosion- and dirt-free			
	10103.8 10103.9 10104 10104.1 10104.2 10104.3 10104.4	Starting air system Cooling water system Auxiliary Engines General performance Leakage, condition of fuel oil, lub. oil lines Auxiliary Engine bilge Emergency Generator	Condition of starting air lines and valves Condition of expansion bellows  Cracks, corrosion and / or pipes connections not tight			
	10103.8 10103.9 10104 10104.1 10104.2 10104.3 10104.4 10105	Starting air system Cooling water system Auxiliary Engines General performance Leakage, condition of fuel oil, lub. oil lines Auxiliary Engine bilge Emergency Generator Boilers	Condition of starting air lines and valves Condition of expansion bellows  Cracks, corrosion and / or pipes connections not tight Oil-, water-, corrosion- and dirt-free			
	10103.8 10103.9 10104 10104.1 10104.2 10104.3 10104.4 10105 10105.1	Starting air system Cooling water system Auxiliary Engines General performance Leakage, condition of fuel oil, lub. oil lines Auxiliary Engine bilge Emergency Generator Boilers Steam or Thermal oil	Condition of starting air lines and valves Condition of expansion bellows  Cracks, corrosion and / or pipes connections not tight Oil-, water-, corrosion- and dirt-free Condition and date last tested			
	10103.8 10103.9 10104 10104.1 10104.2 10104.3 10104.4 10105 10105.1 10105.2	Starting air system Cooling water system Auxiliary Engines General performance Leakage, condition of fuel oil, lub. oil lines Auxiliary Engine bilge Emergency Generator Boilers Steam or Thermal oil Condition of burner front	Condition of starting air lines and valves Condition of expansion bellows  Cracks, corrosion and / or pipes connections not tight Oil-, water-, corrosion- and dirt-free Condition and date last tested  Oil leakage, and air leakage			
	10103.8 10103.9 10104 10104.1 10104.2 10104.3 10104.4 10105 10105.1 10105.2 10105.3	Starting air system Cooling water system Auxiliary Engines General performance Leakage, condition of fuel oil, lub. oil lines Auxiliary Engine bilge Emergency Generator Boilers Steam or Thermal oil Condition of burner front Lagging / isolation of fuel and steam lines	Condition of starting air lines and valves Condition of expansion bellows  Cracks, corrosion and / or pipes connections not tight Oil-, water-, corrosion- and dirt-free Condition and date last tested  Oil leakage, and air leakage Condition of lagging			
	10103.8 10103.9 10104 10104.1 10104.2 10104.3 10104.4 10105 10105.1 10105.2 10105.3 10105.4	Starting air system Cooling water system Auxiliary Engines General performance Leakage, condition of fuel oil, lub. oil lines Auxiliary Engine bilge Emergency Generator Boilers Steam or Thermal oil Condition of burner front	Condition of starting air lines and valves Condition of expansion bellows  Cracks, corrosion and / or pipes connections not tight Oil-, water-, corrosion- and dirt-free Condition and date last tested  Oil leakage, and air leakage			

	Green Award Visual Inspection - Bulk Carrier					
Check Box	Norm item	GREN AWARD	Inspection Focus	Remarks		
		Machinery				
		Bilge System				
		Cleanliness of bilges on every platform	Presence of oil, water, corrosion and / or dirt			
		Bilge separator, position of all valves				
		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			
		Emergency Bilge Suction valve	Check condition / last time tested			
		Double bottom sounding pipes	Check functioning self closing valves			
		Ballast Pumps				
		Condition of pumps	Check functioning of pumps			
		Condition ballast-system	Functioning of all pumps combined			
		Condition supports	Corrosion, cracks, deformation of pump-supports			
		Piping Systems				
		General condition	Check for leakage and / or temporary repairs			
		Condition of piping supports	Check for corroded, broken and / or missing supports			
		General Service Air Systems				
		Condition of air and oil drains	Check good working			
		Condition of pipe lines	Check for leakage and / or temporary repairs			
		Condition of safety valves	Check free movement			
		Chemicals				
		Sufficient Personal Protecting Equipment available	Near storage place and users place			
		Sufficient signboards available	Near storage place and users place			
		Storage of chemicals according safety rules	According makers safety instructions			
	_	Electrical				
		Generator inspections during operation max. load				
		Examination of cables without attachments	Cable supports bulkhead and deck penetrations			
		Electrical equipments in acc. with danger zones	Zeners barriers etc.			
		Inert Gas Plant (optional)				
		Inert Gas system fully operational				
		Condition of all instrumentation	Special O2 meter			
		Condition of all alarms and trips	High and low level alarms etc.			
		Sewage Plant				
		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 - Bulk Carrier					
Check Box	Norm item	GREN AWARD	Inspection Focus	Remarks		
	10100	Machinery				
		Fire Pumps				
		Position of firepump valves	Are instructions available for position of valves			
		General check of emergency firepump	Position of Fuel valve, Content of fuel tank etc.			
		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				
		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			
		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			
		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				
		Steering gear unit complies with SOLAS				
		Steering gear room complies with SOLAS				
		Steering gear unit - and room cleanliness	Check for hydraulic leaks, presence of water and / or oil in drip-trays			
		Change over procedures				
	10202.1	Emergency steering gear change over procedures	Signs posted with instructions for emergency change-over			
		Procedures for emergency change-over visible	Clearly visible near controls of steering gear unit			
		Testing				
		Emergency-steering tested recently	Check records in engine / deck logbook			
		Steering Gear	Check records in engine / deck logbook. Testing before arrival and departure.			

	Green Award Visual Inspection - Bulk Carrier			
Check Box	Norm item	GREEN AWARD	Inspection Focus	Remarks
		Steering Gear		
		Charging emergency header tank		
		Emergency header tank fully charged		
		Fixed storage tank installed		
		Compass		
		Compass present in steering gear room		
		Compass clearly visible from control-station		
	10206	Bridge Communications		
	10206.1	Satisfactory communications with bridge		
		Telephone availabel and working		
		Sound powered telephone available and working		
	10207	Visibility of Rudder Angle Indicator		
		Rudder angle indicator present		
		Rudder angle indicator visible at steering position		
	10208	Access to Steering Gear		
		Entrance door to steering gear room closed	Door to be kept closed at all times and not lashed or blocked in open position	
		Access to steering gear unit unobstructed	Steering gear room should be uncluttered with easy access to all components of the system	
		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	(Cargo) / Ballast System		
	10301	Drawings / Diagrams Layout in Control Room		
		All relevant drawings and diagrams available	Pipe Line diagrams, mimic diagrams etc should be available	
		Drawings visible	Drawings clearly visible and understandable for operation	
		Loading manual / history reports	Check for typical loading / unloading sequences	
		Functioning of (Cargo) / Ballast Pumps		
	10302.1	Is every separate pump working		
		Ballast pumps with temperature sensors		
	10302.3	Is all equipment combined working		
	10303	Meters / Displays inside control room		
	10303.1	Hull bending / Shear force indicator (*)	Check of working, approved and commonly used	
		Loading instrument	Check of working, approved and commonly used	

	Green Award Visual Inspection - Bulk Carrier				
Check Box	Norm item	GREEN AWARD	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		
		State Authority reports	Survey reports, recommendations		
		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		
	10403	External Hull			
		Condition shell plating	Check for indents,cracks, paint-condition / corrosion, pitting and / or cargo stripes		
	10403.2	Condition from deck to light-loadline	Check reverse side lower-end topside ballast tanks and intersection vertical frames		
		Condition boottop and deep-loadline	Check reverse side upper-end double bottom ballast tanks and intersection vertical frames		
		Condition deep-loadline and flat bottom	Check bilge keels for wrongl designs and bad welds		
	10403.5	Condition flat-bottom	Check reverse sides of longitudinal girders / transverse webs & transverse stools under bulkheads		
	10404	Cargo Hold			
	10404.1	General condition main-strength structure			
		Condition shell frame	Check for cracks, leakages connecting brackets at upper - and lower side tanks		
		Condition corrugated bulkheads	Check connection with upper- and lower stools		
		Condition hatch-coamings	Checks connections hatch end beams and longitudinal hatch coamings		
	10404.5	Condition corrosion protection systems	Check condition coating and / or sacrficial anodes		
		Corrosion locations	Locate corrosion on frames/brackets,shell-plating,tanktop,bilges,hopper-surfaces		
		Grab deformations / damage	Check for indents, cracks and / or deformations on all structural hold-parts		
		Shovel/hydraulic hammer deformations / damage	Check for deformations and / or damages near bulkheads, brackets, stringers, webs, girders		
		Condition access platforms, walkways and ladders	General condition of all supports (damages, corrosion and / or cracks )		
		Condition pipelines and valves	Check for leakages / corrosion, temporary repairs and patches ( also protection guards )		
		Bilge wells and strainer	Check content bilge and free of cargo		
		Hatch Covers and Coamings			
		Condition structural integrity hatch	Check main-strength members and general condition		
		Condition hatch-plating	Check for grab-damages, deformations on top-, side-, for- and aft-plating and connection-syst.		
		Condition framing	Damages, corrosion inside frames of covers		
		Condition rails, rollers, pins and supports	Greasing, usage of rollers, even support of rails and rollers ( straight surface of support )		
	10405.5	Condition hatchcover clamping and securing devices	Greasing, working		

	Green Award Visual Inspection - Bulk Carrier				
Check Box	Norm item	GREN AWARD	Inspection Focus	Remarks	
	10400	Structural			
	10405	Hatch Covers and Coamings			
	10405.6	Condition gaskets and channnels			
		Condition of watertightness	Visual check of weather- and watertightness of hatches ( focus on hatches hold # 1 & # 2 )		
		Condition hatch-cover operating system	Check for hydraulic leakages at hydraulic motors & lines, condition of all supports, deformation		
		Topside Ballast Tanks			
		Condition structural integrity	Check main-strength members and general condition		
		Condition brackets, stringers, webs and girders	Check for deformations, fractures, damages, leakages		
		Condition webs	Check webs near connection with longitudinal at shell and bulkheads		
		Condition brackets	Check connection brackets as support for transverse shell frames in cargo-holds		
		Corrosion pattern	Locate corrosion in deckhead-, bulkhead ( near bunkers ) areas, bottom- and longitudinal-plates		
		Condition pipelines and valves	Check for leakages and corrosion, temporary repairs and patches, hydraulic leaks overhead-area		
		Condition access platforms, walkways and ladders	General condition of all supports, corrosion, cracks etc.		
		Double Bottom Ballast Tanks (including hopper)			
		Condition structural integrity	Check main-strength members and general condition		
		Condition bulkhead-, bottom-plating, web, stiffeners	Check for deformations, fractures, damages, leakages		
		Condition girders and transverse web-frames	Check intersection with longitudinal girders and transverse webs ( focus area outer-shell )		
		Condition girders and corrugated bulkheads	Check longitudinal girder under hopper and transverse stool under corrugated bulkhead		
		Condition brackets	Check bracket-ends and toe-ends of stringers, webs and girders		
		Condition webs	Check connection of webs with longitudinals at shell and bulkheads		
		Corrosion protection	Check coating, sacrificial anodes		
		Corrosion pattern	Locate corrosion near bulkhead stools, plating, surfaces and areas with sediment		
		Void Spaces / Cofferdams / Pipe duct			
		Condition structural integrity	Check main-strength members, any non-continous structural material and general condition		
		Condition brackets, stringers, webs and girders	Check for deformations, fractures, damages, leakages		
		Corrosion pattern	Locate corrosion in deckhead-, bulkhead ( near bunkers ) areas, bottom- and longitudinal-plates		
		Condition pipelines and valves	Check for leakages and corrosion, temporary repairs and patches, hyraulic leaks overhead-area		
		Condition access platforms, walkways and ladders	General condition of all supports, corrosion, cracks etc.		
		Bunker Oil Tanks			
		Condition structural integrity	Check main-strength members, any non-continous structural material and general condition		
		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 - Bulk Carrier			
Check Box	Norm item	GREEN AWARD	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 collissions and / or grab damage	
		Coaming corners	Check corner areas and underneath bracket-supports for damage / corrosion	
		Tank entrances and deck openings	Condition check covers and closing devices	
		Pipeline couplings, flanges, branches and supports	Condition check, deformation, cracks, corrosion, tightness	
		Closing appliances for ventilation	Condition check covers and closing devices	
		Bunker and oil tank derating pipes	Check flame screens and coamings	
		Accomodation & Machinery Spaces		
		Structural integrity	General condition, damages & defects	
		Doors, windows, ventilation ducts, closing devices	Condition check and water tightness	
		Stairs and platforms	Condition check, corrosion / deformations	
		Pipelines, valves, couplings, overboard connection	Condition check	
		Safety equipment	Condition check CO2, Halon system, extinguishers, fire hoses, alarms etc.	
		Certificates for safety equipment		
		Mooring equipment		
		Mooring lines	Condition mooring lines	
	_	Winches	Foundation bolts firm, casing crack-, corrosion-free, no leakages and save-all	
		Condition winch-brakes	Check last test report and thickness linings	
		Anchoring equipment		
		Anchors, anchor shackles and chain	Wear, corrosion, clearances inside hawser pipe	
		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 - Bulk Carrier			
Check Box	Norm item	GREEN AWARD	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	
		Fireman's outfit	Check ready for use, easily accessable	
		Breathing Apparatus charging compressor	Check ready for use, easily accessable	
		International Ship/Shore Fire connection	Check available both sides	
		Fire alarm system and detectors	Check test records, condition in accommodation, ER and boiler room	
		Fire flaps and vent stops	Check condition on deck, accommodation, ER and boiler room and clearly marked	
	10503.10		Check condition on deck, accommodation, ER and boiler room	
		Fire hoses	Check condition on deck, accommodation, ER and boiler room	
		Fire system for scavenging air receiver and boiler		
	10503.12		Check condition and working order separate fire fighting system	
	10504	Escape routes		
		Free access	Check free access without obstructions	
		Indicators	Check clear markers / positioning	
	10504.3	Emergency lighting	Check clear markers / positioning	