### **Green Award Foundation**

www.greenaward.org

# Annex 3f: Green Award Requirements (<u>LPG carrier</u>) Version 2025

Checklists for Office Audits and Ship Surveys

Effective as of 1 October 2025



## Annex 3f: Green Award Requirements LPG carrier)

#### LPG 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 "Instruction Notes" located on www.greenaward.org under "Certification/Download".

#### Revision codes

RN Item/question is renumbered

RR Rating score of item/question is changed

N New item or question

D Item/question is deleted

M Text of item/question is modified

CKL LPG / VERSION 2025 / 1.0 2 of 98

## **APPENDIX 1**

CHECKLIST - BASIC CRITERIA - OFFICE AUDIT - LPG CARRIER

(PMC-06)

		CHECKLIST - BASIC CRITERIA - OFFICE AUD	DIT -	LP	G C	ARF	RIEF	R- VI	ERSI	ON :	2025										
Revision Code	Norm item	BASIC Office - LPG	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEFT.  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	•	D	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		D	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 documented and working effectively?																			
	103.3	Are responsibilities and authorities of all office personnel clearly defined ?																			
	103.4	Is the designated person provided with shore-based support and adequate resources?																			
	104	DESIGNATED PERSONS	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 the 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 AUG	)IT -	LP	G C	AR	RIE	R- V	ERS	NOI	1 202	25									
Revision Code	Norm item	BASIC Office - LPG	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 DEFI.  Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	п DEPT.	Doc. & Impl.	INS- / CLAIM DEPT. Doc. & Impl.	NOT APPLICABLE
	100	MANAGEMENT ELEMENTS (continued)																			
	106	RESOURCES AND PERSONNEL AND STCW			0						0										
	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?																			Ш
	106.3	Has the level of competency been defined and documented for office personnel performing functions pertinent to safety and the environment?																			Ш
	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?																			Ш
	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?																			Ш
	106.7	Are records of this training/courses available?																			
	106.8	Are internal audits held on board the ships?																			Ш
	106.9	Is standard composition of crew documented in company policy?																			Ш
	106.10	Is personnel promotion policy (ship & office) documented in company procedures?																			Ш
	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?																			Ш
	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?																			Ш
	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 AUG	DIT -	LP	G C	AR	RIEI	R- V	ERS	101	202	5									
Revision Code	Norm item	BASIC Office - LPG	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	т DEPT.	Doc. & Impl.	INS- / CLAIM DEPT. Doc. & Impl.	NOT APPLICABLE
	100	MANAGEMENT ELEMENTS (continued)																			
	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 ?																	Î		
	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?																			
	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?																			
	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 AUG	)IT -	LP	G C	AR	RIEI	R- V	ERS	101	1 202	25									
Revision Code	Norm item	BASIC Office - LPG	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT.	DUCC. & IIIIpi.	Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	п рерт.	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									•				•						$\Box$
	201.2	Compliance with IGC Code																			
	212	SOLAS Certificates					0		0												
	212.1	Is an overview of the valid certificates per ship available and is the overview updated?																			
	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)?																			
		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)																			
	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.)					1		ı												
	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	DIT -	LP	G C	ARI	RIER	R- VI	ERSI	ON	2025									
Revision Code	Norm item	BASIC Office - LPG	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.	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	Does SMPEP/SOPEP (as applicable) include oil pollution emergency procedures?																		
	310.3	Is training and testing of the oil pollution emergency procedures done?																		
	310.4	Is the plan reviewed for oil pollution emergency procedures? (periodic and event review)																		
		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 oil pollution emergency procedures?																		$\Box$
	1310 /	Does the company have a policy concerning the retention and disposal of oil residues (sludge)?																		
	320	Prevention of pollution by Cargo			0		0		0											
	320.1	Is a shipboard marine pollution emergency plan developed? (SMPEP)																		
	320.2	Is training and testing of the pollution emergency plan done?																		
	320.3	Is the plan reviewed? (periodic and event review)																		
	320.4	Is office personnel familiar with the shipboard marine pollution emergency plan?																		
	350	Prevention of pollution by garbage			0		0		0											
		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 - LPG CARRIER

(PMC-07)

		CHECKLIST - RANKING CRITERIA - OFFICE AL	JDIT	ī - L	_PG	CA	RRIE	ER -	· VER	SIO	N 20	)25										
Revision Code	Norm item	RANKING Office - LPG	GENERAL MAN.	Doc. & Impl.	алапт рерт.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT. Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	T DEBT	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 oxygen, flammable gases or vapours (% of LFL), carbon monoxide and hydrogen sulphide?																			0	10
	1200.9	Is it company policy that a safety meeting, attended by all personnel involved, is held prior to entering the space or commencement of hot work in order to review procedures and PPE (including those specific for the intended work)?																			0	10
	1200.10	Does the company require a responsible officer to be designated for all aspects of the operation?																			0	5
	1200.3	Is ship's crew trained and drilled periodically according to enclosed space entry procedures?																			0	5
	1200.4	Does training also include rescue and first aid?																			0	5
	1200.16	Does the company provide ship specific lists that identify onboard enclosed spaces?																			0	5
	1200.17	Does the company specify PPE appropriate for low temperatures and liquefied gases cargoes?																			0	5
												score	200	440							0	110
		Compressor for the refilling of air cylinders for breathing apparatus or Alternative, Additional			Minin	num		Ť		uired 1	or ele	ement 1	200 =	110								
	1300	Green Award requirement					0	•	0													
	1300.1	Is it company policy that the vessels have a compressor for the refilling of air cylinders for breathing apparatus?																			0	20
	1300.2	Alternative for 1300.1: sufficient number of air cylinders for the sole purpose of safety drills.																			0	10
					NA:		manufat :					score	200 -	40							0	20
					wiinin	num	rankin	ig sc	ore req	urred 1	or ele	ement 1	300 <b>=</b>	10								

		CHECKLIST - RANKING CRITERIA - OFFICE A	UDIT	Γ - Ι	LPG	G C/	ARR	RIER	- VEI	RSIC	ON 2	2025	i											
Revision Code	Norm item	RANKING Office - LPG	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.  Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	IT DEPT. Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE	
	1400	Control of drugs & alcohol onboard / Medical examination								0														Ī
	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	
	1400.4	Does the company have a procedure that a medical examination for crew members and office personnel regularly visiting ships includes testing on effects from carried cargoes?																				0	10	
					Mini	imur	n rank	cina s	core re	nuired		tal sco		100 = 3	80							0	55	4
	1500	Emergency Response System							0			0												Ī
	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	
			<u> </u>		Min	imur	n rank	rina e	core re	nuired		tal sc		500 = 3	25							0	45	4
	1510	Emergency Oil Recovery				I	laile	ung s		quireu	. 101 6	Ciente		, <u>_</u>										1
	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	
					Min	imur	n rank	cina e	core re	nuired		tal sco		10 = r	)							0	10	-
		I .				mull	ı ı aılı	ung 5		quireu	. 101 6	Cicille	in it	,,,,,,,	•									

RANKING Office - LPG  1600 Computer Systems, Networks, Data Security and Training. GA requirement 1600.1 Are arrangements for shore and vessel systems documented? (configuration scheme) 1600.2 Are adequate system back-up's for office administrative PC systems made (where applicable) are procedures for this documented? 1600.7 Is there a policy that system back-ups for vessel computer-based systems are made (where applicable)? 1600.8 Is there a policy that system back-ups for vessel administrative PC systems are made? 1600.3 Is training provided at a level required to effectively operate and maintain the system and cover normal, abnormal and emergency conditions? 1600.4 Is the internal audit scheme applicable to the IT department? 1600.5 Are computer systems, in relation to IMO MSC/Circ.891, certified by a recognised organisation Is a system administrator designated for administrative PC systems in the office?		Doc. & Impl.	O QUALITY DEPT.		TECHNICAL DEPT.	Doc. & Impl.	Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER, CHART DEPT.  Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	O IT DEPT.	Doc. & Impl.	INS- / CLAIM DEPT. Doc. & Impl.	NOT APPLICABLE	O O RANKING SCORE	DI RANKING MAX. SCORE
Are arrangements for shore and vessel systems documented? (configuration scheme)  Are adequate system back-up's for office administrative PC systems made (where applicable) are procedures for this documented?  Is there a policy that system back-ups for vessel computer-based systems are made (where applicable)?  Is there a policy that system back-ups for vessel administrative PC systems are made?  Is training provided at a level required to effectively operate and maintain the system and cover normal, abnormal and emergency conditions?  Is the internal audit scheme applicable to the IT department?  Are computer systems, in relation to IMO MSC/Circ.891, certified by a recognised organisation is a system administrator designated for administrative PC systems in the office?  Cyber Risk Management  Describes expressed base and precedures of other risk pagement (wher risk palies).														0				0	5
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1600.6 Is a system administrator designated for administrative PC systems in the office ?  1610 Cyber Risk Management  Description of the company have place and precedures of extensive page and precedures of extensive place and precedures of extensive place and precedures of extensive place.			Mini						1			I						0	10
1610 Cyber Risk Management  Does the company have place and procedures of other risk management (when risk policy)			Mini	mum														0	10
Deer the company have plans and procedures of other rick management (other rick policy)			Mini	mum														0	10
Deer the company have plans and procedures of other rick management (other rick policy)			IVIIIIII							score	000 - 4	40						0	65
Deer the company have plans and procedures of other rick management (other rick policy)				IIIuiii	ranki	ing sc	ore rec	uirea	or ele	ement	600 = 4	+0							
incorporated within its Safety Management System (SMS)?																		0	20
1610.3 Does the cyber risk policy differentiate between IT (information technology) and OT (operational technology) systems?																		0	10
1610.4 Does the cyber risk policy focus on elements such as third-party access and bring your own de (BYOD) in the office?	ice																	0	5
Does the company designate and train personnel as appropriate to identify and respond to cybe threats to the company's information technology systems?	r																	0	5
Does the company have a policy in place to build new ships equipped with cyber secure system and components?	5																	0	5
Does the company have a set of clear and unambiguous cyber risk requirements that reflect the company's expectations to vendors and agents?																		0	5
Does the company have a policy to carry out cyber risk assessments on its ships (at an interva 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
Does the company provide its ships with contingency plans and related information in a non-electronic form that need to be followed in the event of a cyber attack?																		0	5
1610.10 Is it a company policy to involve IT department while preparing to purchase OT systems for shi	s?																	0	5
Does the company use the information from investigations of previous identified cyber incidents improve the technical and procedural protection measures and response plans on board and ashore?	to																	0	5
Does the company forbid remote access by technicians and manufacturers to on-board system without authorization by the vessel's senior leadership team (For example, by following a two-st digital authorization process)?																		0	5
			Mini	mum	ranki	ina ec	ore rec			score ement 1	610 = 3	35						0	75

	CHECKLIST - RANKING CRITERIA - OFFICE A	UDIT	ī - L	_PG	CA	RRI	ER -	VER	SIC	)N 2	025											
Norm item	RANKING Office - LPG	SENERAL MAN.	Joc. & Impl.	QUALITY DEPT.	Joc. & Impl.	FECHNICAL DEPT.	Joc. & Impl.  VAUTICAL DEPT.	Joc. & Impl.	PERSONNEL DEPT.	Joc. & Impl.	OPER./CHART DEPT.	Joc. & Impl.	URCHASING DEPT.	Joc. & Impl.	INANCIAL DEPT.	Doc. & Impl.	T DEPT.	NS- / CLAIM DEPT.	Doc. & Impl.	VOT APPLICABLE	SANKING SCORE	RANKING MAX. SCORE
1700	Noise and Vibration Management			Ū								Ī										_
	Noise/Vibration Monitoring and Measures																					
1700.1	Is it company policy to verify the noise survey report every 5 years?																				0	15
1700.2	Is it company policy that the crew entering spaces where noise levels exceed 85db(a) should wear hearing protectors which meet the requirements of the HML(High-Medium-Low) method (ISO 4869-2:1994)?																				0	5
1700.3	Is it company policy to periodically inspect the noise and vibration of all machinery equipment and rectify any abnormalities?																				0	5
1700.4	Is it company policy to take appropriate measures in order to protect the crew from cargo handling equipment noise if it exceeds 85db(a) (by taking into account technical solutions and/or exposure limits)?																				0	10
	Noise Mitigation and Health Hazards																					
1700.5	Does the SMS include the following?  1.Hearing protection;  2.Exposure limits;  3.Training regarding noise and health hazards.																				0	5
1700.6	Does the company provide the crew with a hearing conservation programme which includes the following:  1.Hazards of high and long duration of noise exposure;  2.Maintenance of audiometric test records;  3.Periodic analysis of records and hearing acuity of individuals with high hearing loss.																				0	5
1700.7	Does the company assess the risks associated with distractions to onboard operations, communication and rest hours caused by exposure to high levels of noise?																				0	10
1700.8	Is it company policy to determine the noise exposure level of each rating/officer by taking into account the job profile, time spent by each crew member in different work spaces? (ISO 9612:2009 procedure)																				0	10
																					0	65
1710	Underwater Noise and Vibration Management			WIITII	num	rankli	iy sco	re req	uirea	ror e	neme	10.17	00 = 2	20								
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;																				0	10
	If others =	*fill d	luring	g aud	dit*		•		-	1								•		1		
1710.3	Does the company take any additional maintenance routines (e.g. polishing/coating) to reduce cavitation from the propeller?																				0	5
	' '																					
	1700 1700.1 1700.2 1700.3 1700.4 1700.5 1700.6 1700.7 1700.8 1710 1710.1	RANKING Office - LPG  Noise and Vibration Management Noise/Vibration Monitoring and Measures Is it company policy to verify the noise survey report every 5 years? 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 4869-21994)?  Is it company policy to periodically inspect the noise and vibration of all machinery equipment and rectify any abnormalities?  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)?  Noise Mitigation and Health Hazards  Does the SMS include the following? 1.Hearing protection; 2.Exposure limits; 3.Training regarding noise and health hazards.  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 aculty of individuals with high hearing loss.  Does the company assess the risks associated with distractions to onboard operations, communication and rest hours caused by exposure to high levels of noise?  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)  Underwater Noise and Vibration Management  Is it company practice to design a newbuild ship in such a manner to attenuate/reduce underwater noise?  Does the company take any of the following measures to reduce underwater noise and vibration: 1.Installation of siate of art propellers (With reduced cavitation); 2. Wake conditioning devices; 5. Installation of propeller boss cap with fins; 6. Others = "fill during audit"?  If others =  If others =  Does the company take any additional maintenance routines (e.g. polishing/coating)	RANKING Office - LPG  Noise and Vibration Management  Noise/Vibration Monitoring and Measures  Is it company policy to verify the noise survey report every 5 years?  Is it company policy to verify the noise survey report every 5 years?  Is it company policy to verify the noise survey report every 5 years?  Is it company policy to the requirements of the I-MIL(High-Medium-Low) method (ISO 4869-2:1994)?  Is it company policy to periodically inspect the noise and vibration of all machinery equipment and rectify any abnormalities?  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)?  Noise Mitigation and Health Hazards  Does the SMS include the following?  1.1eraing protection; 2.Exposure limits; 3.Training regarding noise and health hazards.  Does the company provide the crew with a hearing conservation programme which includes the following: 1.1eraing 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.  1700.7  Does the company provide the crew with a hearing conservation to onboard operations, communication and rest hours caused by exposure to high levels on lose?  Is it company policy to determine the noise exposure; 2.Maintenance of audiometric test records; Is it company policy to determine the noise exposure level of each traing/officer by taking into account the job profile, time spent by each crew member in different work spaces? 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(ISO 9812-2009 procedure)  Underwater Noise and Vibration Management Is it company practice to design a newbuild ship in such a manner to attenuate/reduce underwater noise?  Does the company take any of the following measures to reduce underwater noise and vibration: 1.Installation of state of air tpropellers (With reduced cavitation); 2.Wake conditioning devices; 3.Installation of a state of air tpropellers (With reduced cavitation); 5. Installation of state of air tpropellers; 6. Others = "fill during audit"?  If others = "fill during laudit"?	RANKING Office - LPG	RANKING Office - LPG  Noise and Vibration Management  Noise/Vibration Monitoring and Measures  Is it company policy to verify the noise survey report every 5 years?  Is it company policy to verify the noise survey report every 6 years?  Is it company policy to verify the noise survey report every 6 years?  Is it company policy to periodically inspect the noise and vibration of all machinery equipment and rectify any abnormalities?  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?)  Noise Mitigation and Health Hazards  Does the SMS include the following?  1. Taining regarding noise and health hazards.  Does the company provide the crew with a hearing conservation programme which includes the following:  1. Zexposure limits;  3. Training regarding noise and health hazards.  Does the company seess the risks associated with distractions to onboard operations, communication and rest hours caused by exposure to high levels on foise?  Is it company policy to determine the noise exposure;  Is it company policy to determine the noise exposure level of each rating/officer by taking into account the plo profile, time spert by each crew member in different work spaces? (ISO 9612:2009 procedure)  Minimum  Into Underwater Noise and Vibration Management  Is it company practice to design a newbuild ship in such a manner to attenuate/reduce underwater noise?  Intellation of site of art propellers (With reduced cavitation);  2. Wake conditioning devices;  5. Installation of site of art propellers (With reduced cavitation);  2. Wake conditioning devices;  5. Installation of propeller boss cap with fins;  6. Others = "fill during audit"?  If others = "fill during audit"?	RANKING Office - LPG	RANKING Office - LPG  Noise and Vibration Management Noise/Vibration Monitoring and Measures Is it company policy to verify the noise survey report every 5 years? Is it company policy to the 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 4868-2:1994)?  Is it company policy to periodically inspect the noise and vibration of all machinery equipment and recipied yary abnormalities?  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?  Noise Mitigation and Health Hazards Noise Mitigation and health hazards.  Does the eMS include the following? 1. Hearing protection; 2. Exposure limits; 3. Training regarding noise and health hazards.  Does the company provide the crew with a hearing conservation programme which includes the following: 1. Hearing protection; 2. Maintenance of audiometric test records; 3. Periodic analysis of records and hearing acuity of individuals with high hearing loss.  Does the company passess the risks associated with distractions to onboard operations, communication and rest hours caused by exposure to high levels of noise?  Is it company policy to determine the noise exposure; Is it company policy to determine the noise exposure to high levels of noise?  Does the company take any of the following measures to reduce underwater noise and vibration: 1. Installation of star liquicity priction programme to attenuate/reduce underwater noise? 1. Underwater Noise and Vibration Management 1. Is it company policy to determine the noise exposure to high levels of each return developed to a propeller of an propeller of an appropeller of a propeller	RANKING Office - LPG  Noise and Vibration Management Noise/Vibration Monitoring and Measures Is it company policy to the terret were report every 5 years? 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Hazards of high and long duration of noise exposure;  2. Maintenance of audiometric test records;  3. Periodic analysis of records and hearing aculty of individuals with high hearing loss.  Does the company provide the crew with a secondard with distractions to onboard operations, communication and rest hours caused by exposure to high levels of noise?  Is to company place to design an ewbuild ship in such a manner to attenuate/reduce underwater noise and vibration account the job profile, time spent by each crew member in different work spaces? (ISO 9612:2009 procedure)  Wilnimum ranking score required.  Wilnimum ranking score required to the company take any of the following measures to reduce underwater noise and vibration:  1. Installation of specific propeler;  4. Vibration isolators mounted on the diesel generators;  5. Installation of profile prose cap with fins;  6. Others = "fill during audit"	RANKING Office - LPG  Noise and Vibration Management  Noise/Vibration Monitoring and Measures  1700.1   Six company policy to verify the noise survey report every 5 years?  18 ix company policy to verify the noise survey report every 5 years?  18 ix company policy to verify the noise survey report every 5 years?  18 ix company policy to verify the noise and vibration of all machinery ending any abnormalities?  18 ix company policy to periodically inspect the noise and vibration of all machinery ending any abnormalities?  18 ix company policy to take appropriate measures in order to protect the crew from cargo handling equity any abnormalities?  18 ix company policy to take appropriate measures in order to protect the crew from cargo handling equity any abnormalities?  1900.5   Six company policy to take appropriate measures in order to protect the crew from cargo handling equity and the standard of the company policy to take appropriate measures in order to protect the crew from cargo handling equity any abnormalities?  1900.5   Six company policy to take appropriate measures in order to protect the crew from cargo handling equity and the standard of the crew and the company policy to take appropriate measures in order to protect the crew from cargo handling equity and the company policy to take appropriate measures in order to protect the crew from cargo handling equity miles?  1900.5   Six company policy to take appropriate measures and vibrations and/or exposure limits?  1900.5   Six company policy to take appropriate measures and vibrations and/or exposure limits?  1900.6   Six company policy to determine the crew with a hearing conservation programme which includes the following:  1900.6   Six company policy to determine the noise exposure;  2 Maintenance of audiornetic test records,  2 Periodic analysis of records and health hazards.  1900.6   Six company policy to determine the noise exposure level of each rating/officer by taking into accordance and the following measures to reduce underwater noise and	RANKING Office - LPG  Noise and Vibration Management Noise/Vibration Monitoring and Measures  1700.1   St. company policy to writing the noise survey report every 5 years?  18 is company policy to writing the noise survey report every 5 years?  18 is company policy to writing the noise and vibration of all machinery equipment and recitly any abnormalities?  18 is company policy to periodically inspect the noise and vibration of all machinery equipment and recitly any abnormalities?  18 is company policy to take appropriate measures in order to protect the crew from cargo handling emitty and abnormalities?  18 is company policy to take appropriate measures in order to protect the crew from cargo handling elimits?  Noise Mitigation and Health Hazards.  Does the SMS include the following?  11 Heazards of high and long duration of noise exposure;  22 Maintenance of audiometric test records, 32 Feriodic analysis of records and healing acuity of individuals with high hearing loss.  33 Periodic analysis of records and healing acuity of individuals with high hearing loss.  34 Company policy to determine the noise exposure; 25 Maintenance of audiometric test records, 39 Periodic analysis of records and healing acuity of individuals with high hearing loss.  1700.5 Secondary of the cords and healing acuity of individuals with high hearing loss.  1700.6 Secondary of the cords and healing acuity of individuals with high hearing loss.  1700.7 Secondary of the cords and healing acuity of individuals with high hearing loss.  1700.8 Secondary of the cords and healing acuity of individuals with high hearing loss.  1700.9 Secondary of the cords and healing acuity of individuals with high hearing loss.  1700.9 Secondary of the cords and healing acuity of individuals with high hearing loss.  1700.9 Secondary of the cords and healing acuity of individuals with high hearing loss.  1700.9 Secondary of the cords and healing acuity of individuals with high hearing loss.  1700.9 Secondary of the cords and healing acuity of individuals wi	RANKING Office - LPG	Noise and Vibration Management Noise/Vibration Monitoring and Measures Is it company policy to verify the noise survey report every 5 years? 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Does the company provide the crew with a hearing conservation programme which includes the following: 11. Hearing protection: 2. Maintenance of audiometric test records; 3. Periodic analysis of records and health pazards. 3. Periodic analysis of records and health distractions to onboard operations, communication and rest hours caused by exposure to high levels of noise? 4. 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)  Total score  Ninimum ranking score required for element 17  10. Underwater Noise and Vibration Management 11. Installation of safe of art propelers (With reduced cavitation); 2. Wake conditioning devices; 5. Installation of a rise of art propelers (With reduced cavitation); 5. Underwater Noise and Vibration should be profiler by a	RANKING Office - LPG  Noise and Vibration Management  Noise/Vibration Monitoring and Measures  1700.1 Is it company policy to verify the noise survey report every 5 years?  Is it company policy to verify the noise survey report every 5 years?  Is it company policy to verify the noise survey report every 5 years?  Is it company policy to years/ 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- 21994)?  1700.3 Is to company policy to periodically inspect the noise and vibration of all machinery equipment and rectify any abnormalities?  1700.4 Noise Miligation and Health Hazards  Does the Company provide the crew with a hearing conservation programme which includes the following:  1. Hearing protection:  3. Training regarding noise and health hazards.  Does the company policy to date 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)?  1. Hearing protection:  3. Training regarding noise and health hazards  Does the company policy to date 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)?  1. Hearing protection:  3. Training regarding noise and health hazards  Does the company policy to date appropriate measures in order to protect the crew from cargo handling equipment noise if exceeds 85db(a) (by taking into account the job profile, time spent by each crew member in different work spaces? (850 9812.2009 procedure).  1. In the 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? (850 9812.2009 procedure).  1. In the company practice to design a newbull stip in such a manner to attenuate/reduce underwater noise and vibration:  1. Installat	PRANKING Office - LPG  Noise and Vibration Management  Nose/Vibration Monitoring and Measures  1700.1  Is it company policy to the rever writing spaces where noise levels exceed 55db(a) should wear bearing protectors which meet the requirements of the HML(High-Medium-Low) method (ISO 4869-2:1949) and should be a special protector which meet the requirements of the HML(High-Medium-Low) method (ISO 4869-2:1949)  1700.2  Is it company policy to the rever writing spaces where noise devel exceeds 55db(a) should wear bearing protectors which meet the requirements of the HML(High-Medium-Low) method (ISO 4869-2:1949)  1700.2  Is it company policy to the rever writing spaces where noise and vibration of all machinery equipment and recition and the space of t	RANKING Office - LPG  Noise and Vibration Management Noise/Vibration Monitoring and Measures  1700.1 Noise and Vibration Monitoring and Measures  1700.1 Is it company policy to verify the noise survey report every 5 years?  Is it company policy to verify the noise survey report every 5 years?  Is it company policy to wrify the noise survey report every 5 years?  Is it company policy to the the crew entering spaces where noise levels exceed 85db(a) should wear hearing protectors writer meet the requirements of the HALL(High-Medium-Low) method (ISO 4869-2-1949)  1700.2 Is it company policy to set if exceeds 85db(a) (Iso 4869-2-1949)  1700.3 Is it company policy to the the crew entering spaces where noise and vibration of all machinery equipment and recitly any ahomomatities?  1700.4 Is it company policy to the set of the HALL(High-Medium-Low) method (ISO 4869-2-1949)  1700.5 Is company policy to the set of the HALL(High-Medium-Low) method (ISO 4869-2-1949)  1700.6 It company policy to the set of the HALL(High-Medium-Low) method (ISO 4869-2-1949)  1700.7 Is it company policy to the company policy to the properties measures in order to protect the crew from cargo handling equition and Health Hazards  Does the SMS include the following?  1. Hearing protection:  2. Exposure in this  3. Training regarding noise and health hazards.  Does the Company policy to determine the noise exposure;  2. Maintenance of audiometric test records;  3. Periodic analysis of records and health hazards.  1700.4 Is company policy to determine the noise exposure to high levels of noise?  18 it company policy to determine the noise exposure to high levels of noise?  18 it company policy to determine the noise exposure to high levels of noise?  19 it company policy to determine the noise exposure to high levels of noise?  19 it company policy to determine the noise exposure to high levels of noise?  19 it company policy to determine the noise exposure to high levels of noise?  19 it company policy to determine the noise exposure to high leve	RANKING Office - LPG  Noise Aftiration Management  Noise/Wiration Monitoring and Measures  Noise/Wiration Monitoring and Measures  1700.1 Is it company policy to the foreward of the following measures to reduce underwater noise of the following and the following of the followin	RANKING Office - LPG	RANKING Office - LPG  Noise and Vibration Management  Noise/Vibration Monitoring and Measures  18 at company policy to verify the noise survey report every 5 years?  18 at Company policy to verify the noise survey report every 5 years?  18 at Company policy to verify the noise survey report every 5 years?  18 at Company policy to verify the noise survey report every 5 years?  18 at Company policy to the time of the rew entering spaces where noise levels exceed 85tb(a) should wear hearing protectors which meet the requirements of the MML(High-Medium-Low) method (ISO 4869-2.1964)?  1909 Noise Mitigation and Health Hazards  Does the SMS include the following?  1 Hearing protectors  2 Exposure lambs.  2 Exposure lambs.  2 Exposure lambs.  3 Exposure lambs.  3 Exposure lambs.  4 Des the company sesses the risks associated with distractions to onbeard operations, communication and real house acude with distractions to onbeard operations, communication and real house acude with distractions to onbeard operations, communication and real house acude with distractions to onbeard operations, communication and real house acude with distractions to onbeard operations, communication and real house acude with distractions to onbeard operations, communication and real house acude with distractions to onbeard operations, communication and real house acude by exposure to high level of roise?  10 Exposure lambs.  10 Exposure lambs.  10 Exposure lambs.  11 Exposure lambs.  11 Exposure lambs.  12 Exposure lambs.  13 Exposure lambs.  14 Exposure required for element 1700 - 25  15 Exposure lambs.  16 Exposure required for element 1700 - 25  1700 Underwater Noise and Vibration Management  18 Exposure required for element 1700 - 25  18 Exposure required for element 1700 - 25	RANKING Office - LPG    Noise and Vibration Management	RANKING Office - LPG	PRANKING Office - LPG  Noise and Vibration Management Noise/Vibration Montoring and Measures  1790.1  Six Company policy to particularly imposed the role and vibration of all machinery equipment and receilly any abromatiles?  Is a Company policy to particularly imposed the role and vibration of all machinery equipment and receilly any abromatiles?  Noise Witigation and Health Hazards  Does the Company policy to particularly imposed the role and vibration of all machinery equipment and receilly any abromatiles?  Noise Mitigation and Health Hazards  Does the Six Routed the following?  1190.2  Does the Company policy to particular in the content of the content

	CHECKLIST - RANKING CRITERIA - OFFICE A	ווסט	Γ - Ι	_PG	G CA	١RR	IER ·	- VE	RSIC	ON 2	2025											
Norm item	RANKING Office - LPG	GENERAL MAN.	Doc. & Impl.	аиашту 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	MAINING 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
		₩.					• • • •														0	85
	1800 1800.1 1800.2 1800.3 1800.4 1800.5 1800.6 1800.7 1800.8	RANKING Office - LPG  Social Dimension / Sustainability  A. Good Health & Well-Being  Does the company ensure that all vessels under its control have an ITF or similar agreement in place?  1800.2 Does the company have procedure regarding relieving shipboard personnel on compassionate grounds? (For example, in case of a family emergency)  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?  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?  1800.5 Does the company provide access to the internet at all times for shipboard personnel on board all ships under its control?  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)?  1800.7 Does the company have confidential reporting procedures enabling all employees to report harassment & discrimination?  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.?  B.2 Gender-specific  Does the company take steps to promote and achieve gender diversity/equality at office and ship?  Does the company take steps to promote and achieve gender diversity/equality at office and on board vessels (at all levels)?  Does the company take steps to promote and achieve gender diversity/equality at office and on board vessels (at all levels)?  Does the company take steps to promote and achieve gender diversity/equality at office and and on separate washrooms with sanitary facilities on board  - separate washroom	RANKING Office - LPG  Social Dimension / Sustainability  A. Good Health & Well-Being  Does the company ensure that all vessels under its control have an ITF or similar agreement in place?  1800.2 Does the company have procedure regarding relieving shipboard personnel on compassionate grounds? 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Does the company take steps to promote and achieve gender diversity/equality at office and on board essels (at all levels)?  Does the company provide the following specific facilities for its women seafarers:  - ferminine hygiene items (in bonded stores) & separate disposal facilities on board  - separate washrooms	RANKING Office - LPG    Social Dimension / Sustainability	RANKING Office - LPG    Social Dimension / Sustainability   A. Good Health & Well-Being   Beauty	RANKING Office - LPG    Social Dimension / Sustainability   A Good Health & Well-Being   Does the company ensure that all vessels under its control have an ITF or similar agreement in place?   Boos the company ensure that all vessels under its control have an ITF or similar agreement in place?   Boos the company ensure that all vessels under its control have an ITF or similar agreement in place?   Boos the company have procedure regarding relieving shipboard personnel on compassionate grounds? (For example, in case of a family emergency)   Is the company subscribed to any digital platform (web or app) that can be referred to by shipboard staff for seeking medical advice?   Boos the company ensure that the shipboard staff is aware of platforms (online/offline) providing access to emotional support networks to tackle mental health issues?   Boos the company provide access to the internet at all times for shipboard personnel on board all ships under its control?   B. Reduced Inequalities / Equal Opportunities / Diversity   B.1 General   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)?   Does the company have confidential reporting procedures enabling all employees to report harassment & discrimination?   Does the company have 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.?   B.2 Gender-specific	RANKING Office - LPG    Social Dimension / Sustainability   A. Good Health & Well-Being   Beauty   Does the company ensure that all vessels under its control have an ITF or similar agreement in place?   Boos the company have procedure regarding relieving shipboard personnel on compassionate grounds? (For example, in case of a family emergency)   Beauty   Beauty	RANKING Office - LPG  Social Dimension / Sustainability  A. Good Health & Well-Being  1800.2 Does the company ensure that all vessels under its control have an ITF or similar agreement in place?  1800.2 Does the company have procedure regarding relieving shipboard personnel on compassionate grounds? (For example, in case of a family emergency)  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?  1800.4 Does the company becribed to any digital platform (web or app) that can be referred to by shipboard staff for seeking medical advice?  1800.5 ships under its control?  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)?  1800.7 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)?  1800.7 Does the company have steps to create awareness among its staff (or 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.?  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)?  Does the company take steps to promote and achieve gender diversity/equality at office and on board vessels (at all levels)?  Does the company provide the following specific facilities for its women seafarers:  - feminine hygiene items (in bonded stores), & separate disposal facilities on board - suttable sized (gender specific) safety and protective diohing on board - suttable sized (gender spe	RANKING Office - LPG	RANKING Office - LPG	RANKING Office - LPG  Social Dimension / Sustainability  A. Good Health & Well-Being  Does the company ensure that all vessels under its control have an ITF or similar agreement in place?  Does the company ensure that all vessels under its control have an ITF or similar agreement in place?  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Gendor-specific  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.?  B. Gendor-specific  Does the company take steps to oreate 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.?  B. Gendor-specific  Does the company take steps to promote and achieve gender diversity/equality at office and on board vessels (at all levels)?  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General  Does the company have a policy focusing on subjects such as equal opportunities, equality and diversity, inclusion, anti-tharsasment, etc. to prevent and eliminate discrimination at very lace of the same of the company have a policy focusing on subjects such as equal opportunities, equality and diversity, inclusion, anti-tharsasment, etc. to prevent and eliminate discrimination at very lace of the company have a policy focusing on subjects such as equal opportunities, equality and diversity, inclusion, anti-tharsasment, etc. to prevent and eliminate discrimination at very lace of the and ship)?  Does the company have a policy focusing on subjects such as equal opportunities, equality and diversity, inclusion, anti-tharsasment, etc. to prevent and eliminate discrimination at very lace of the and ship)?  B. Coender-specific  Does the company have confidential reporting procedures enabling all employees to report haracterism and the provide of the company have a policy focusing on subjects such as equal opportunities, equality and diversity, inclusion, anti-tharsasment, etc. to prevent and eliminate discrimination at very lace of the and ship)?  B. 2 Gender-specific  B. 2 Gender-specific  B. 2 Gender-specific sections and the provide of the provide the following specific facilities for its women seafarers:  - feminine hygiene terms (in bonded stores) & separate disposal facilities on bo	Part   Part	RANKING Office - LPG  Social Dimension / Sustainability  A. Good Health & Well-Being  Boose the company resure that all vessels under its control have an ITF or similar agreement in place?  Boose the company resure that all vessels under its control have an ITF or similar agreement in place?  Boose the company resure that all vessels under its control have an ITF or similar agreement in place?  Boose the company subscribed to any digital platform (web or app) that can be referred to by shipboard staff for seeking medical advice?  Boose the company provide access to the internet at all times for shipboard personnel on board all ships.  B. Reduced Inequalities / Equal Opportunities / Diversity  B. Reduced Inequalities / Equal Opportunities / Diversity  B. General  Does the company have a policy focusing on subjects such as equal opportunities, equality and diversity, inclusion, arti-descrimation, anti-harassment, etc. to prevent and eliminate discrimination and ship?  Does the company have a policy focusing on subjects such as equal opportunities, equality and diversity, inclusion, arti-descrimation, anti-harassment, etc. to prevent and eliminate discrimination  Does the company have a policy focusing on subjects such as equal opportunities, equality and diversity, inclusion, arti-descrimation, anti-harassment, etc. or prevent and eliminate discrimination  Does the company have an office and on solve the company that the spicies focusing on subjects such as equal opportunities, equality and diversity, inclusion, arti-descrimation, anti-harassment, etc.?  B.2 General  Does the company have produced and shapp?  Does the company that the spicies focusing on subjects such as equal opportunities, equality and diversity, inclusion, arti-descrimation, anti-harassment, etc.?  B.2 General  Coes the company proper and publish its performance on environmental, social and governance criteria annually (in ine with internationally recognised frameworks, such as GRI, IIRC and SASB standards)?	RANKING Office - LPG  Social Dimension / Sustainability  A. Good Health & Well-Being  1980.2. Does the company suscepted and analysis of a family emergency)  1980.3. She company suscepted to any digital platform (web or appl that can be referred to by shipboard staff for seeking medical advice?  1980.4. Does the company have procedure regarding relieving shipboard personnel on compansationate grounds? (For example, in case of a family emergency)  1980.5. Does the company suscepted to any digital platform (web or appl that can be referred to by shipboard staff for seeking medical advice?  1980.6. Does the company suscepted to any digital platform (web or appl that can be referred to by shipboard staff for seeking medical advice?  1980.7. Destine control?  1980.8. Rotecuted inequalities / Equal Opportunities / Diversity  1980.9. Destine 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?  1980.9. Destine 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. To prevent and eliminate discrimination?  1980.6. Destine company provide the following specific facilities for its women seafarers:  1980.7. Destine company provide the following specific facilities for its women seafarers:  1980.8. Control of the company provide the following specific facilities on board - separate wastrooms with sanitary facilities on board - separate wastrooms with sanitary facilities on board - access to medical supplies without having to consult make colleagues on board - access to medical supplies without having to consult make colleagues on board - access to medical supplies without having to consult make colleagues on board - access to medical supplies without having to consult make colleagues o	RANKING Office - LPG  Social Dimension / Sustainability  A. Good Health & Well-Being  Does the company suscribed any digital platform (web or app) that can be referred to by shipboard staff for seeking medical advice?  Social medical advice?  A. Good Health & Well-Being  Does the company have procedure regarding releving shipboard personnel on compassionate grounds? (For example, in case of a family emergency)  Is the company suscribed to any digital platform (web or app) that can be referred to by shipboard staff for seeking medical advice?  B. Reduced Inequalities / Equal Opportunities / Diversity  B. 1 General  Does the company have a policy focusing on subjects such as equal opportunities, equality and diversity, inclusion, anti-discrimination, anti-harassment, etc. for prevent and eliminate discrimination at workplace (office and ship)?  Does the company provide the following specific facilities for its women seafarers:  B. 2 Gender-specific  Does the company provide the following specific facilities for its women seafarers:  - Guiden season of the company provide the following specific facilities for its women seafarers:  - Guiden season of the company provide the following specific facilities for its women seafarers:  - Guiden season of the company provide the following specific facilities on board - separate waterforms with sanitary facilities	RANKING Office - LPG  Social Dimension / Sustainability  A. Good Health & Well-Baing  1800  Does the company resure that all vessels under its control have an ITF or similar agreement in place?  Does the company have procedure regarding relieving shipboard personnel on compassionate growing of the company subscribed to any digital platform (web or app) that can be referred to by shipboard staff is seeking medical end-wise. Place is employees to report haven's to Lackie mental health issuars?  Does the company provide access to the internet at all times for shipboard personnel on board all ships. Place is employees to report haven's to Lackie mental health issuars?  Does the company have a policy focusing on subjects such as equal opportunities, equality and diversity, inclusion, and-discrimination; and diversity, inclusion, and-discrimination; and diversity, inclusion, and-discrimination; and diversity inclusion, and-discrimination; and diversity, inclusion, and-discrimination; and diversity inclusion, and-discrimination; and diversity, inclusion, and-discrimination; and diversity, inclusion, and-discrimination; and diversity, inclusion, and-discrimination; and diversity inclusion, and-discrimination; and diversity, inclusion, and-discrimination; and diversity inclusion, and discrimination; and diver	RANKING Office - LPG  Social Dimension / Sustainability  A Good Health & Well-Being  Does the company have procedure regarding relieving shipboard personnel on compassionate growing of reseking medical advise?  Does the company subscribed to any digital platform (web or app) that can be referred to by shipboard at sets to emotional support networks to lacke mental health issue?  B. Reduced Inequalities / Equal Opportunities / Diversity  B. Reduced Inequalities / Equal Opportunities / Diversity /	RANKING Office - LPG    14   14   14   14   14   14   14   1	RANKING Office - LPG  Social Dimension / Sustainability  A. Good Haalfin & Well-Being  Does the company ensure that all vessels under its control have an ITF or similar agreement in place of the company have procedure regarding relieving shipboard personnel on compassionate grounds? (For example, in case of a family emergency)  1800. 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Inclusion, and such as a such as equal opportunities, equality and office and ships. Inclusion, and such as a such as equal opportunities, equality and office and on board and such as a such as equal opportunities, equality and office and on board and the such processes of medical supplies without having to consult make college on board	RANKING Office - LPG  Social Dimension / Sustainability  A. Good Haiffi & Well-Boiling Does the company ensure that all vessels under its control have an ITF or similar agreement in part of the company ensure that all vessels under its control have an ITF or similar agreement in part of the company ensure that all vessels under its control have an ITF or similar agreement in part of the company ensure that all vessels under its control have an ITF or similar agreement in part of the company ensure that all vessels under its control have an ITF or similar agreement in part of the company ensure that all vessels under its control have an ITF or similar agreement in part of the company ensure that all vessels under its control have an ITF or similar agreement in part of the company ensure that all vessels under its control have an ITF or similar agreement in part of the company ensure that all vessels under its control have an ITF or similar agreement in part of the company ensure that all vessels under its control in part of the company ensure that all vessels under its control in part of the company ensure that all vessels under its control in part of the company ensure that all vessels under its control in part of the company ensure that all times for shiptoerd personnel on board all things under its control?  8.1 General  S.1 General  S.2 Gender according in the company have a policy focusing on subjects such as equal opportunities, equally and all vessels (and its control?)  8.2 Gender according in the company have a policy focusing on subjects such as equal opportunities, equally and all vessels in the company have a policy focusing on subjects such as equal opportunities, equally and all vessels (and levels)?  8.2 Gender according in the company have a policy focusing on subjects such as equal opportunities, equally and all vessels (and in levels) in control in all vessels (and in le

		CHECKLIST - RANKING CRITERIA - OFFICE AI	רוסע	Γ - Ι	LPG	CA	RRII	ER -	VEF	RSIO	)N 2	025										
Revision Code	Norm item	RANKING Office - LPG	GENERAL MAN.	Doc. & Impl.	алапту рерт.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT. Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	IT DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.  Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	2000	NAVIGATION / BRIDGE OPERATIONS																				
М	2100	Navigation						•	•			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?	L																		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?	<u> </u>																		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?	L																		0	5
	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
RR			₩.		Minin		wo m le! :-					I score ement :	2400 -	. 40							0	110
RR	l .		Щ_		wiinin	num	rankir	ig sco	ore req	uirea	tor el	ement	2100 =	40								

2111   Electronic chart display & information systems / ECDIS			CHECKLIST - RANKING CRITERIA - OFFICE A	UDI.	T -	LPG	CA	RRI	ER	- VE	RSI	ON 2	2025											
Applicable to the companies with ships for which carriage of ECDIS is compulsory  211.13 Does the company provide navigational procedures concerning the use of ECDIS?  211.14 Set a company policy lost ECDIS as critical equipment and integrate into PMS? (that where and software)  211.15 Set a company policy bit ECDIS as critical equipment and integrate into PMS? (that where and software)  211.15 Set a company policy that ECDIS is the steed a according to the ICDIS data presentation and performance check with a use of test data set after every update of the software (including back up?)?  211.16 Is a company policy that regardless of the generic staining the crew is familiarised with the ECDIS units (in installed onboard according to the Including New York (including back units); installed onboard according to the Including New York (including back units); installed onboard according to the Including New York (including back units); installed onboard according to the Including New York (including back units); installed onboard according to the Including New York (including back units); installed onboard according to the Including New York (including	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.	NOTAPPLICABLE	RANKING SCORE	RANKING MAX. SCORE
2111.3 Does the company provide navigational procedures concerning the use of ECDIS?  2111.4 Is it is a company provide to text ECDIS as critical equipment and integrate into PMS? (hardware and software)  2111.5 Is it is a company policy to text ECDIS as critical equipment and integrate into PMS? (hardware and software)  2111.6 Is it is a company policy that ECDIS is tested according to IHO ECDIS data presentation and performance check with a use of less tested as eat after every update of the software (including back up?)  2111.6 Is it is a company policy that regardless of the generic training the crew is familiarised with the ECDIS unit;) installed orbitand according to the Industry Recommendations for ECDIS Familiarisation?  2111.7 Is it is a company policy to provide structured ECDIS training(s) for all officers on top of the generic training (besides the familiarization orbitand in R2111.5)?  2111.7 Is it is a company policy to provide structured ECDIS training(s) for all officers on top of the generic training (besides the familiarization orbitand in R2111.5)?  2111.8 Does the company have a confided a generic training (several or ECDIS for verious navigation conditions (arrival / departure - coastal - deep sea)?  2111.1 Does the company have a standard for elegistic environment and provides (arrival / departure - coastal - deep sea)?  2111.1 Is a company policy that the vessels have a basic folio of paper charts (in case second ECDIS is a back up system?)  211.1 Is a company policy that the vessels have a basic folio of paper charts (in case second ECDIS is a back up system?)  211.1 Is a company policy that the vessels have a basic folio of compliance with NECA (Tier III) requirements before entire of a compliance with SECA (Tier III) requirements before entire of a compliance with SECA (Tier III) requirements before entire of a compliance with SECA requirements before entire of a compliance with SECA requirements before entire of a compliance with secaral challatis and migration (checklist) includes ve		2111	Electronic chart display & information systems / ECDIS																					
### 1114. Is it a company policy to list ECDIS as critical equipment and integrate into PMS? (hardware and software)  ### 1115. Is it a company policy that ECDIS is tested according to IHD ECDIS data presentation and conformance check with a use of test data set after every update of the software (including back up?)  ### 1116. Is it a company policy that regardless of the generic training the crew is familiarised with the ECDIS in the presentation and conformance check with a use of test data set after every update of the software (including back up?)  ### 1116. Is it a company policy that regardless of the generic training the crew is familiarised with the ECDIS in the present of the including back up?  ### 1116. Is it a company policy that the standard for its presentation of the including back up?  ### 1117. Is it is a company policy that the standard for its presentation of the including back up?  ### 1118. It is a company policy that the standard for display settings flayers) of ECDIS for various navigation confidence in the individual of the presentation of the individual includes a standard for display settings flayers) of ECDIS for various navigation confidence in the individual of the presentation of compliance with NECA (Ter III) requirements back up system?  ### 1202. Environmental Requirements during the Voyage  ### 1202. Voyage-plan (checkist) includes verification of compliance with NECA (Ter III) requirements before entry of areafocation (either by means of change of fluel-grade or use of SDx scrubber)  ### 1202. Voyage-plan (checkist) includes verification of compliance with SECA requirements before entry of areafocation (either by means of change of fluel-grade or use of SDx scrubber)  ### 1202. Voyage-plan (checkist) includes verification of compliance with SECA requirements before entry of areafocation (either by means of change of fluel-grade or use of SDx scrubber)  ### 1202. Voyage-plan (checkist) includes verification of compliance with SECA requirements before entry of areafocation (eit			Applicable to the companies with ships for which carriage of ECDIS is compulsory																					
211.5 software)  211.6 s t 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)?  211.6 s it a company policy that regardless of the generic training the crew is familiarised with the ECDIS unit(5) installed orthoard according to the fluority Recommendations for ECDIS Familiarisation?  211.7 s is a company policy that regardless of the generic training the crew is familiarised with the ECDIS unit(5) installed orthoard according to the fluority Recommendations for ECDIS Familiarisation?  211.6 s it a company policy by provide structured ECDIS Tamiliarisation or the provided of the company to the company that is a company policy to provide structured ECDIS training (besides the familiarization orbitant and the company of the company that is a company policy that the vessels have a brain ECDIS manufacturer in relation to the maintenance of the software?  211.6 s is a company policy that the vessels have a brain ECDIS for various navigation conditions (arrival / departure - coastal - deep seal?)  211.1 s is a company policy that the vessels have a brain ECDIS for various navigation conditions (arrival / departure - coastal - deep seal?)  211.1 s is a company policy that the vessels have a brain ECDIS for various navigation conditions (arrival / departure - coastal - deep seal?)  211.1 s is a company policy that the vessels have a brain ECDIS for various navigation conditions (arrival / departure - coastal - deep seal?)  211.1 s is a company policy that the vessels have a brain ECDIS for various navigation conditions (arrival / departure - coastal - deep seal?)  212.0 s is a company policy that the vessels have a brain ECDIS for various navigation conditions (arrival / departure - coastal - deep seal?)  212.0 s is a company policy that the vessels have a brain ECDIS for various navigation conditions (arrival / departure - coastal - deep seal?)  212.0 s is a company policy for various nav		2111.3	Does the company provide navigational procedures concerning the use of ECDIS?																	T			0	10
### Part		2111.4																					0	5
will(s) installed orboard according to the Industry Recommendations for ECDIS Familiarisation?  2111.7 Is it is 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)?  2111.8 Does the company have a contract / agreement with ECDIS manufacturer in relation to the maintenance of the software?  2111.10 Does the company have a standard for display settings (layers) of ECDIS for various navigation conditions (arrival departure - costal - deep seas)?  2111.11 Does the company have a standard for display settings (layers) of ECDIS for various navigation conditions (arrival departure - costal - deep seas)?  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)?  2120. Environmental Requirements during the Voyage  Novage-plan (checklist) includes verification of compliance with NECA (Tier III) requirements before entry of areafocation (either by means of change of fuel-grade or use of SOx-scrubber)  Novage-plan (checklist) includes verification of compliance with SECA requirements before entry of areafocation (either by means of change of fuel-grade or use of SOx-scrubber)  Novage-plan (checklist) includes verification of compliance with Ballast Water Management requirements (either by means of change of fuel-grade or use of SOx-scrubber)  Novage-plan (checklist) includes verification for compliance with Ballast Water Management requirements (either by means of change of fuel-grade or use of SOx-scrubber)  Novage-plan (checklist) includes verification for transit of globally known whale-areas (habitats) and migration patterns and provides disturbance miligation. Source : WWF whale.org  Novage-plan (checklists) includes verification for transit through PSSA (Particularly Sensitive Sea Areas)?  Novage-plan (checklists) includes verification for transit through PSSA (Particularly Sensitive Sea Areas)?  Novage-plan (checklists) includes verification for t		2111.5	performance check with a use of test data set after every update of the software (including back																				0	5
training (besides the familiarization onboard in R2111.6)?  2111.19 Does the company have a contract / agreement with ECDIS manufacturer in relation to the maintenance of the software?  Does the company have a standard for display settings (layers) of ECDIS for various navigation conditions (arrival / departure - coastal - deep sea)?  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)?  Environmental Requirements during the Voyage  2120.4 Voyage-plan (checklist) includes verification of compliance with NECA (Tier III) requirements before entry of arealocation (either by use of exhaust gas treatment or engine technology, e.g. dual fuel)  2120.2 Voyage-plan (checklist) includes verification of compliance with SECA requirements before entry of arealocation (either by means of change of fuel-grade or use of SOx-scrubber)  2120.2 Voyage-plan (checklist) includes verification of compliance with Ballast Water Management requirements (either by means of D-2 treatment system or D-1 exchange of ballast during voyage)  2120.5 Voyage-plan (checklist) includes verification for transit of globally known whale-areas (habitats) and migration patterns and provides disturbance mitigation. Source: WWF whale or an analysis of the patterns and provides disturbance mitigation. Source: WWF whale or an analysis of the patterns and provides disturbance mitigation. Source: WWF whale or an analysis of the patterns and provides disturbance mitigation. Source: WWF whale or an analysis of the patterns and provides disturbance mitigation. Source: WWF whale or an analysis of the patterns and provides disturbance mitigation. Source: WWF whale or an analysis of the patterns and provides disturbance mitigation. Source: WWF whale or an analysis of		2111.6																					0	15
maintenance of the software?  2111.11 Does the company have a standard for display settings (layers) of ECDIS for various navigation conditions (arrival / departure - coastal - deep seal)?  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)?  Total score		2111.7																					0	5
2111.12 conditions (arrival / departure - coastal - deep sea)?  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)?  2120 Environmental Requirements during the Voyage  Voyage-plan (checklist) includes verification of compliance with NECA (Tier III) requirements before entry of fuel; your area/location (either by use of exhaust gas treatment or engine technology, e.g. dual fuel;)  2120.1 Voyage-plan (checklist) includes verification of compliance with SECA requirements before entry of area/location (either by use of exhaust gas treatment or engine technology, e.g. dual fuel;)  M 2120.2 Voyage-plan (checklist) includes verification of compliance with SECA requirements before entry of area/location (either by means of b-2 treatment system or D-1 exchange of ballast during voyage)  N 2120.7 Alternative to 2120.2: Vessel has been designed not to carry any Ballast Water (no Ballast Tanks available onboard)  2120.5 Voyage-plan (checklists) includes verification for transit of globally known whale-areas (habitats) and migration patterns and provides disturbance mitigation. Source: WWF whale.org  2120.6 Voyage-plan (checklists) includes verification for transit through PSSA (Particularly Sensitive Sea Areas)?  Voyage-plan (checklists) includes verification for transit through PSSA (Particularly Sensitive Sea Areas)?  N 2120.6 Voyage-plan (checklists) includes verification for transit through PSSA (Particularly Sensitive Sea Areas)?  N 2120.6 Voyage-plan (checklists) includes verification for transit through PSSA (Particularly Sensitive Sea Areas)?  N 2120.7 Voyage-plan (checklists) includes verification for transit through PSSA (Particularly Sensitive Sea Areas)?  N 2120.6 Voyage-plan (checklists) includes verification for transit through PSSA (Particularly Sensitive Sea Areas)?  N 2120.6 Voyage-plan (checklists) includes verification for transit through PSSA (Particularly Sensitive Sea Areas)?  N 2120.6 Voyage-plan (checklists) includes verifica		2111.8																					0	5
back up system)?    Total score   Total scor		2111.11	conditions (arrival / departure - coastal - deep sea)?																				0	5
Mainton   Section   Mainton   Section   Mainton   Section   Sect		2111.12																						
Environmental Requirements during the Voyage  Voyage-plan (checklist) includes verification of compliance with NECA (Tier III) requirements before entry of area/location (either by use of exhaust gas treatment or engine technology, e.g. dual fuel)  Voyage-plan (checklist) includes verification of compliance with SECA requirements before entry of area/location (either by means of change of fuel-grade or use of SOx-scrubber)  Voyage-plan (checklist) includes verification of compliance with Ballast Water Management requirements (either by means of D-2 treatment system or D-1 exchange of ballast during voyage)  No 2120.2 Voyage-plan (checklist) includes verification of compliance with Ballast Water Management requirements (either by means of D-2 treatment system or D-1 exchange of ballast during voyage)  No 2120.7 Alternative to 2120.2: Vessel has been designed not to carry any Ballast Water (no Ballast Tanks available onboard)  Voyage-plan (checklist) includes verification for transit of globally known whale-areas (habitats) and migration patterns and provides disturbance mitigation. Source: WWF whale.org  Voyage-plan (checklists) includes verification for transit through PSSA (Particularly Sensitive Sea Areas)?  Total score  Voyage-plan (checklists) includes verification for transit through PSSA (Particularly Sensitive Sea Areas)?  Total score  No 10 10 10 10 10 10 10 10 10 10 10 10 10				₩		Minin	num	ranki	na sa	core re	auire				11 = 3	5				—	—		0	60
before entry of area/location ( either by use of exhaust gas treatment or engine technology, e.g. dual fuel )  2120.1 Voyage-plan ( checklist ) includes verification of compliance with SECA requirements before entry of area/location ( either by means of change of fuel-grade or use of SOx-scrubber )  2120.2 Voyage-plan ( checklist ) includes verification of compliance with Ballast Water Management requirements ( either by means of D-2 treatment system or D-1 exchange of ballast during voyage )  N 2120.7 Alternative to 2120.2: Vessel has been designed not to carry any Ballast Water ( no Ballast Tanks available onboard )  Voyage-plan ( checklists ) includes verification for transit of globally known whale-areas ( habitats ) and migration patterns and provides disturbance mitigation. Source : WWF whale.org  Voyage-plan ( checklists ) includes verification for transit through PSSA (Particularly Sensitive Sea Areas)?  Voyage-plan ( checklists ) includes verification for transit through PSSA (Particularly Sensitive Sea Minimum ranking score required for element 2120 = 40  Minimum ranking score required for element 2120 = 40  Mooring Operations  Does the company have procedures/instructions for mooring/unmooring operations?	М	2120	Environmental Requirements during the Voyage			0			Ť	0			0											
area/location (either by means of change of fuel-grade or use of SOx-scrubber )  M 2120.2 Voyage-plan (checklist) includes verification of compliance with Ballast Water Management requirements (either by means of D-2 treatment system or D-1 exchange of ballast during voyage )  N 2120.7 Alternative to 2120.2: Vessel has been designed not to carry any Ballast Water (no Ballast Tanks available onboard )  Voyage-plan (checklists) includes verification for transit of globally known whale-areas (habitats) and migration patterns and provides disturbance mitigation. Source : WWF whale.org  Voyage-plan (checklists) includes verification for transit through PSSA (Particularly Sensitive Sea Areas)?  Total score 0 55  Minimum ranking score required for element 2120 = 40  2300 Mooring Operations 0 10 10	N	2120.4	before entry of area/location (either by use of exhaust gas treatment or engine technology, e.g. dual																				0	10
requirements (either by means of D-2 treatment system or D-1 exchange of ballast during voyage)  N 2120.7 Alternative to 2120.2: Vessel has been designed not to carry any Ballast Water (no Ballast Tanks available onboard)  N 2120.5 Voyage-plan (checklists) includes verification for transit of globally known whale-areas (habitats) and migration patterns and provides disturbance mitigation. Source: WWF whale.org  N 2120.6 Voyage-plan (checklists) includes verification for transit through PSSA (Particularly Sensitive Sea Areas)?  RR Voyage-plan (checklists) includes verification for transit through PSSA (Particularly Sensitive Sea Areas)?  Minimum ranking score required for element 2120 = 40  Mooring Operations  Does the company have procedures/instructions for mooring/unmooring operations?	М	2120.1																					0	10
available onboard )  Voyage-plan (checklists) includes verification for transit of globally known whale-areas (habitats) and migration patterns and provides disturbance mitigation. Source: WWF whale.org  Voyage-plan (checklists) includes verification for transit through PSSA (Particularly Sensitive Sea Areas)?  Total score  Total score  Minimum ranking score required for element 2120 = 40  2300 Mooring Operations  Does the company have procedures/instructions for mooring/unmooring operations?	М	2120.2																					0	10
and migration patterns and provides disturbance mitigation. Source: WWF whale.org  Voyage-plan (checklists) includes verification for transit through PSSA (Particularly Sensitive Sea Areas)?  RR  Minimum ranking score required for element 2120 = 40  2300 Mooring Operations  Does the company have procedures/instructions for mooring/unmooring operations?	N	2120.7		L																			0	15
Areas     Area	M/RN	2120.5																					0	10
RR   Minimum ranking score required for element 2120 = 40 2300   Mooring Operations   Operations		2120.6																					0	
2300 Mooring Operations  2300.1 Does the company have procedures/instructions for mooring/unmooring operations?  0 10	RR			$\vdash$		Mississ		ranki	na o	nore r	auire				20 - 4	0							0	55
2300.1 Does the company have procedures/instructions for mooring/unmooring operations?	KK	2300	Mooring Operations	1		wiinin	ium	ranki			quire	u tor (	ereme	nt 21	20 = 4	HU								
				H																-			0	10
		2000.1	2003 the company have procedures/instructions for moornig/unimoorning operations?	₩		<u> </u>	1		L_			Tot	tal sco	re				L_		—		Щ	0	

	CHECKLIST - RANKING CRITERIA - OFFICE A	UDI.	T - L	-PG	CA	RR	IER	- VE	RSIC	ON 2	2025											
Norm item	RANKING Office - LPG	GENERAL MAN.	Doc. & Impl.	алапту рерт.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT. Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.	Coc. & IIIpi.	FINANCIAL DEPT.  Doc. & Impl.		IT DEPT. Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	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 90%)																				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	·																				0	10
3100.5	Is there an instruction that all persons involved are to be familiar with the intended bunker operation and/or internal transfer operation and their duties?																				0	10
														•				•	•		0	50
				Mini	mum	ranki	ing so	core re	quirec	l for e	elemei	nt 310	00 = 50	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
					mum																0	50
	3000 3100 3100.1 3100.2 3100.3 3100.4 3100.5 3101.1 3101.1 3101.2 3101.3 3101.4	RANKING Office - LPG  MACHINERY / ENGINE OPERATIONS  Bunker Operations  3100.1 Does the company MS specify a safe-maximum percentage fill for bunker tanks? (max. limit 90%)  3100.2 Is a checklist used for bunker operations (company format)?  3100.3 Does the bunker procedure include a bunker plan (company format)?  3100.4 Are there procedures/instructions for the internal transfer of fuel oil between main storage tanks?  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?  3101.1 Does the company SMS specify that only a relevant IAPH LNG bunkering checklist must be used?  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?  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?  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?  3101.5 Does the company provide thermal imaging camera/equipment for leakage detection during bunkering on board its LNG-fuelled ships (GA-certified only)?	RANKING Office - LPG  MACHINERY / ENGINE OPERATIONS  3000 MACHINERY / ENGINE OPERATIONS  3100.1 Does the company MS specify a safe-maximum percentage fill for bunker tanks? (max. limit 90%) 3100.2 Is a checklist used for bunker operations (company format)? 3100.3 Does the bunker procedure include a bunker plan (company format)? 3100.4 Are there procedures/instructions for the internal transfer of fuel oil between main storage tanks? 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?  3101.1 Does the company SMS specify that only a relevant IAPH LNG bunkering checklist must be used? 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? 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?  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?  3101.5 Does the company provide thermal imaging camera/equipment for leakage detection during bunkering on board its LNG-fuelled ships (GA-certified only)?	RANKING Office - LPG  MACHINERY / ENGINE OPERATIONS  3000 MACHINERY / ENGINE OPERATIONS  3100.1 Does the company MS specify a safe-maximum percentage fill for bunker tanks? (max. limit 90%)  3100.2 Is a checklist used for bunker operations (company format)?  3100.3 Does the bunker procedure include a bunker plan (company format)?  3100.4 Are there procedures/instructions for the internal transfer of fuel oil between main storage tanks?  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?  3101.1 Does the company SMS specify that only a relevant IAPH LNG bunkering checklist must be used?  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?  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?  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?  3101.5 Does the company provide thermal imaging camera/equipment for leakage detection during bunkering on board its LNG-fuelled ships (GA-certified only)?  3101.6 Does the company provide its shipboard personnel a shore-based training on LNG bunkering?	RANKING Office - LPG    Ward of the process of the	RANKING Office - LPG  MACHINERY / ENGINE OPERATIONS  Bunker Operations  3000. Bunker Operations  3000. Does the company MS specify a safe-maximum percentage fill for bunker tanks? (max. limit 90%)  3100.1 Does the company MS specify a safe-maximum percentage fill for bunker tanks? (max. limit 90%)  3100.2 Is a checklist used for bunker operations (company format)?  3100.3 Does the bunker procedure include a bunker plan (company format)?  3100.4 Are there procedures/instructions for the internal transfer of fuel oil between main storage tanks?  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?  Minimum  Minimum  Sinol. Does the company SMS specify that only a relevant IAPH LNG bunkering checklist must be used?  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?  Does the company install CCTV on LNG bunker stations for the purpose of observing the bunkering operation from the bridge or operation control room?  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?  3101.5 Does the company provide thermal imaging camera/equipment for leakage detection during bunkering on board its LNG-fuelled ships (GA-certified only)?  3101.6 Does the company provide its shipboard personnel a shore-based training on LNG bunkering?	RANKING Office - LPG  MACHINERY / ENGINE OPERATIONS  3000  MACHINERY / ENGINE OPERATIONS  3100.1  Does the company MS specify a safe-maximum percentage fill for bunker tanks? (max. limit 90%)  3100.2  Is a checklist used for bunker operations (company format)?  3100.3  Does the bunker procedure include a bunker plan (company format)?  3100.4  Are there procedures/instructions for the internal transfer of fuel oil between main storage tanks?  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?  Minimum rank  3101.1  Does the company SMS specify that only a relevant IAPH LNG bunkering checklist must be used?  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?  Does the company install CCTV on LNG bunker stations for the purpose of observing the bunkering operation from the bridge or operation control room?  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?  Does the company provide thermal imaging camera/equipment for leakage detection during bunkering on board its LNG-fuelled ships (GA-certified only)?  3101.6  Does the company provide its shipboard personnel a shore-based training on LNG bunkering?	RANKING Office - LPG  MACHINERY / ENGINE OPERATIONS  Sino.  Bunker Operations  3100.  Is a checklist used for bunker operations (company format)?  3100.2 Is a checklist used for bunker operations (company format)?  3100.3 Does the bunker procedure include a bunker plan (company format)?  3100.4 Are there procedure include a bunker plan (company format)?  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?  Minimum ranking s  3101.1 Does the company SMS specify that only a relevant IAPH LNG bunkering checklist must be used?  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?  3101.3 Does the company install CCTV on LNG bunker stations for the purpose of observing the bunkering operation from the bridge or operation comtrol room?  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?  3101.5 Does the company provide thermal imaging camera/equipment for leakage detection during bunkering on board its LNG-fuelled ships (GA-certified only)?  3101.6 Does the company provide its shipboard personnel a shore-based training on LNG bunkering?	RANKING Office - LPG    Way   1/2	RANKING Office - LPG    Way   1	RANKING Office - LPG    Way   The state   The state	RANKING Office - LPG  WANT JULY AND JUL	MACHINERY / ENGINE OPERATIONS  3100 Bunker Operations  3100.1 Does the company MS specify a safe-maximum percentage fill for bunker tanks? (max. limit 90%) 3100.2 Is a checklist used for bunker operations (company format)? 3100.3 Does the bunker procedure include a bunker plan (company format)? 3100.4 Are there procedures/instructions for the internal transfer of fuel oil between main storage tanks? 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?  Total score  Minimum ranking score required for element 31  Bunker Operations - LNG  3101.1 Does the company SMS specify that only a relevant IAPH LNG bunkering checklist must be used? 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?  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?  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?  3101.5 Does the company provide thermal imaging camera/equipment for leakage detection during bunkering on board its LNG-fuelled ships (GA-certified only)?  3101.6 Does the company provide its shipboard personnel a shore-based training on LNG bunkering?  Total score	RANKING Office - LPG  WANTING OFFICE - LPG	RANKING Office - LPG  WAY TO THE TOTAL TOT	RANKING Office - LPG  Way Total Specific PROSINE OPERATIONS  3000  MACHINERY / ENGINE OPERATIONS  3000  MACHINERY / ENGINE OPERATIONS  3000  Machinery / Engine Operations  3000  Bunker Operations  3000  Does the company MS specify a safe-maximum percentage fill for bunker tanks? (max. limit 90%)  1300.2 Is a checklist used for bunker operations (company format)?  3000.3 Does the bunker procedure include a bunker plan (company format)?  1300.4 Are there procedures/instructions for the internal transfer of fuel oil between main storage tanks?  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 dutles?  Total score  Minimum ranking score required for element 3100 = 50  3101.1 Does the company SMS specify that only a relevant IAPH LNG bunkering checklist must be used?  1310.2 Is it company policy to ensure that LNG-fuelled ships are equipped with LNG specific PPEs such as protective cryogenic gloves and safely goggles with side protection?  3101.3 Does the company policy to ensure that LNG-fuelled ships are equipped with LNG specific PPEs such as protective cryogenic gloves and safely goggles with side protection?  3101.5 Is it company policy to that ships are mandated to provide a dedicated watch (from a safe location) on bunker station during the entire duration of the LNG bunkering?  3101.5 Does the company provide thermal imaging camera/equipment for leakage detection during bunkering on board its LNG-fuelled ships (GA-certified only)?  3101.6 Does the company provide its shipboard personnel a shore-based training on LNG bunkering?  Total score	RANKING Office - LPG  WAY TO THE PROPERTY OF T	RANKING Office - LPG  Why hours of the company MS specify a safe-maximum percentage fill for bunker tanks? (max. limit 90%) Is a checklist used for bunker operations (company format)? Is there procedures/instructions for the internal transfer of fuel oil between main storage tanks? 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?  Bunker Operations - LNG  Bunker Operation - LNG  Bunker Oper	RANKING Office - LPG  WANT JULY AND JUL	RANKING Office - LPG  WANT   Survey   S	RANKING Office - LPG    Machinery / Engine Operations   Machin	RANKING Office - LPG  WAT THE STATE OF THE S

		CHECKLIST - RANKING CRITERIA - OFFICE AI	JDIT	۱ - ۱	LPG	G CA	ARRI	ER -	VEF	RSIC	ON 2	2025	5										
Revision Code	Norm item	RANKING Office - LPG	GENERAL MAN.	Doc. & Impl.	алапту DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	IT DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	3200	Fuel oil management																					
		A. Contracting / Procurement																					
	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 ( <u>latest edition is recommended</u> )?																				0	10
	3200.15	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?																				0	10
	3200.13	Is an evaluation of all fuel oil suppliers carried out to identify "quality-oriented fuel oil suppliers" 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																					
	3200.11	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	<u> </u>		,														,		,		
	3200.16	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			•								•										,
	3200.1	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
	3200.18	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																					
	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
	3200.19	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?	ļ																			0	5
												al sc									$\bot$		120

PAGE CARGO CERTATIONS  4190.1  4190.1  4190.2			CHECKLIST - RANKING CRITERIA - OFFICE A	UDI.	T - I	LPG	3 C/	ARF	RIEF	R - V	ERSI	ON	202	5											
1909 LPG Carrier Cargo Operations & Additional Green Award requirements  1909 Is a company procedure that the single infore safety checklish has to be used before leading/unbading population.  1908 Does the company procedure that the single infore safety checklish has to be used before leading/unbading population.  1909 In 1909 Does the company have procedureal/instructions in relation to the entire cargo tank operations?  1909 Does the company wave procedureal/instructions in relation to the entire cargo tank operations?  1909 Does the company wave procedureal/instructions in relation to the entire cargo tank operations?  1909 Does the company wave procedureal/instructions to the vessel? (e.g., is strip compatible for a company distribution relevant cargo instructions to the vessel? (e.g., is strip compatible for a company distribution relevant cargo instructions to the vessel? (e.g., is strip compatible for a company distribution relevant cargo instructions to the vessel? (e.g., is strip compatible for a company population that is sufficient number of personnel is available in case of entire procedure for entire at sufficient number of personnel is available in case of entire procedure for the personnel is available in case of entire procedure for the personnel is available in case of entire procedure for the personnel is available in case of entire procedure for the personnel is available in case of entire procedure for the case of entire procedure for the next cargo?  1909 Is a company posity that it approved expected at least within 24 hours and sent to the foliation at least 15 the proto or entire?  1909 In the company provide instruction (matrix) for tanks preparation for the next cargo?  1909 In the company provide instruction (matrix) for tanks preparation for the next cargo?  1909 In the company provide instruction (matrix) for tanks preparation for the next cargo?  1909 In the company provide instruction (matrix) for tanks preparation for the next cargo in the cargo and procedure for matrix procedure	Revision Code	Norm item		GENERAL MAN.	Doc. & Impl.	алапт рерт.	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.	NOI APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
1901   10   10   10   10   10   10   1		4000	CARGOES / CARGO OPERATIONS																						
should be seen the company have instructions for smoking areas on board?  4100.4 Does the company have instructions for smoking areas on board?  4100.4 Does the company have procedures/instructions in relation to the entire cargo tank operations?  4100.5 Is company waver of cargo specifications which are required by the charterer of the ship?  4100.6 Soe the company have instructions in relation to the entire cargo tank operations?  4100.7 Instruction in the cargo tank operations?  4100.7 Instruction in the cargo tank operations?  4100.7 Instruction the cargo tank operation of the entire cargo tank operations?  4100.7 Instruction the cargo tank operation of the entire cargo tank operations?  4100.7 Instruction the cargo tank operation to the vessel? (e.g., is ship compatible for intended cargo).  4100.7 Instruction the cargo tank operation to the vessel? (e.g., is ship compatible for intended cargo).  4100.7 Instruction the cargo tank operation to the vessel? (e.g., is ship compatible for intended cargo).  4100.7 Instruction the cargo tank operation to the vessel? (e.g., is ship compatible to cargo).  4100.7 Instruction the cargo tank operation to the cargo tank operation to the next cargo?  4100.8 Instruction the cargo tank operation for the next cargo?  4100.9 Does the company provide a step-by-step procedure for the next cargo?  4100.9 Does the company provide a step-by-step procedure for the next cargo?  4100.9 Does the company provide procedure for entire intended to cargo tank of the cargo arm/hose connected?  4100.9 Does the company provide procedure for entire intended to cargo tank operation to the manifold is conducted prior to commercing the cargo tank operation to the manifold is conducted prior to commercing the cargo tank operation to the manifold to conducted prior to commercing the cargo tank operation to the manifold is conducted prior to commercing the cargo tank operation to the manifold is conducted prior to commercing the cargo tank operation to the manifold is conducted prior to commercing		4100	LPG Carrier Cargo Operations & Additional Green Award requirements							0			0												
4100.4 Does the company have procedures/instructions in relation to the entire cargo tank operations?  4100.5 is company aware of cargo specifications which are required by the charterer of the ship?  4100.8 Does the company platitude relevant cargo instructions to the vesser? (e.g. is ship compatible for inferred cargo.)  4100.7 Are there procedures to ensure that a sufficient number of personnel is available in case of entire deciration.  4100.7 Are there procedures to ensure that a sufficient number of personnel is available in case of entire deciration.  4100.7 Are there procedures to ensure that a sufficient number of personnel is available in case of entire deciration.  4100.7 Are there procedures to ensure that a sufficient number of personnel is available in case of entire deciration.  4100.7 Are there procedures to ensure that a sufficient number of personnel is available in case of entire deciration.  4100.7 Are there procedure for the savailable in case of entire deciration.  4100.7 Are there procedure that a sufficient number of personnel is available in case of entire deciration.  4100.7 Are there procedure for the savailable in case of entire deciration.  4100.7 Are there procedure for the savailable in case of entire deciration.  4100.7 Are there procedure for the savailable in case of the savailable in case of the least 12 trays prior to an invalidation.  4100.8 Does the company provide instruction (matrix) for tanks preparation for the next cargo?  4100.8 Does the company provide procedure for carrying incompatible cargose?  4100.9 Does the company provide procedure for carrying incompatible cargose?  4100.9 Ship to Ship Transfer Operations  4100.9 Does the company policy to verify with the STS-operator that approved equipment is used for the entire of the case of the procedure for elevant disables because the savail support of the c		4100.1	1 11 1																					0	10
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4100.6 Does the company distribute relevant cargo instructions to the vessel? (e.g. is ship compatible for interest of trained degree of the other procedures to ensure that a sufficient number of personnel is available in case of emergency during port size; at a company policy that all ESD points are tested on regular basis?  1400.47 Is it a company policy that all ESD points are tested on regular basis?  1400.27 Is it a company policy that are personnel is available in case of emergency during port size; at a company policy that are personnel is available in case of emergency during port size; at a company policy that are tested on regular basis?  1400.27 Is it a company policy that are tested on regular basis?  1400.28 Is it a company policy that the vessels send a pre-loading (discharging (cargo) plan to the office?  1400.29 Does the company provide instruction (matrix) for tanks preparation for the next cargo?  1400.30 Does the company provide instruction (matrix) for tanks preparation for the next cargo?  1400.31 Does the company provide instruction (matrix) for tanks preparation for the next cargo?  1400.32 Does the company provide instruction (matrix) for the process of draining the loading lines and hosses before loading arms get disconnected?  1400.31 Does the company provide procedure for the process of draining the loading lines and hosses before loading arms get disconnected?  1400.32 Does the company provide procedure for minimizing the vapor loss during tank atmosphere change?  1400.33 Is it a company policy that a lask test of the cargo arm/hose connection to the manifold is conducted prior to commencing the cargo transfer?  1400.34 Does the company policy to verify with the STS-operator that approved equipment is used for the learned of the company policy to verify with the STS-operator that approved equipment is used for the learned of the loading policy to verify with the STS-operator that approved equipment is used for the learned of the policy during manifestiment of the policy during manife		4100.4	Does the company have procedures/instructions in relation to the entire cargo tank operations?																<u> </u>					0	10
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## and the seminary of the company provide instruction (matrix) for tanks preparation for the next cargo?  ## and thoses before loading arms get disconnected?  ## and thoses before loading arms and t		4100.6	intended cargo)																<u></u>					0	20
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4100.30 Does the company provide a step-by-step procedure for the process of draining the loading lines and hoses before loading arms get disconnected?  4100.31 Does the company provide a procedure for carrying incompatible cargoes?  Does the company provide a procedure for carrying incompatible cargoes?  Does the company provide procedure for carrying incompatible cargoes?  10 10  4100.32 Is it a company policy that a leak test of the cargo arm/hose connection to the manifold is conducted prior to commencing the cargo transfer?  Total score  10 10  10 10  10 10  10 10  10 10  10 10  10 10  10 10  10 10  10 10  10 10  10 10  10 10 10  10 10  10 10 10  10 10 10  10 10 10  10 10 10 10  10 10 10 10 10  10 10 10 10 10 10 10 10 10 10 10 10 10 1		4100.28	Is it a company policy that the vessels send a pre-loading / discharging (cargo) plan to the office?																<u> </u>					0	10
and hoses before loading arms get disconnected?  4100.31 Does the company provide a procedure for carrying incompatible cargoes?  Does the company provide procedure for minimizing the vapor loss during tank atmosphere change?  Is it a company policy that a leak test of the cargo arm/hose connection to the manifold is conducted prior to commencing the cargo transfer?  Total score  Minimum ranking score required for element 4100 = 100  4200 Ship to Ship Transfer Operations  Is it company policy to verify with the STS-operator that approved equipment is used for the intended STS operation?  Total score  Total sc		4100.29	1 71	ļ															<u> </u>					0	10
4100.32 Does the company provide procedure for minimizing the vapor loss during tank atmosphere change?  4100.33 Is it a company policy that a leak test of the cargo arm/hose connection to the manifold is conducted prior to commencing the cargo transfer?  Total score  Total score  Minimum ranking score required for element 4100 = 100  Ship to Ship Transfer Operations  Is it company policy to verify with the STS-operator that approved equipment is used for the mended STS operation?  Total score  Total score  Total score  O 40  Minimum ranking score required for element 4200 = 40  Minimum ranking score required for element 4200 = 40  Total score  Ninimum ranking score required for element 4200 = 40  Total score  O 40  Total score  O 5000 PREVENTION OF POLLUTION  Store  Does the company have ship-specific procedures/instructions (according to IMO guidelines) for the control and management of ships' biofoduling to minimize the transfer of invasive aquatic species?  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?  Store  Store  Store  Store  Total score  Total s		4100.30																	<u> </u>					0	10
change?  4100.33 Is it a company policy that a leak test of the cargo arm/hose connection to the manifold is conducted prior to commencing the cargo transfer?  70tal score  7		4100.31		<u> </u>															<u> </u>					0	10
prior to commencing the cargo transfer?    Total score		4100.32	change?																<u></u>					0	10
Ship to Ship Transfer Operations  4200 Ship to Ship Transfer Operations  4200.5 Is it company policy to verify with the STS-operator that approved equipment is used for the intended STS operation?  Total score  Minimum ranking score required for element 4200 = 40  Total score  O 40  Minimum ranking score required for element 4200 = 40  PREVENTION OF POLLUTION  S100 Biofouling Management  S100.5 Does the company have ship-specific procedures/instructions (according to IMO guidelines) for the control and management of ships' biofouling to minimize the transfer of invasive aquatic species?  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?  S100.7 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)?  S100.8 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?  Total score  Minimum ranking score required for element 4100 = 100  Minimum ranking score required for element 4200 = 40  Doe stored score and		4100.33																	<u></u>						
4200. Ship to Ship Transfer Operations  4200.5 Is it company policy to verify with the STS-operator that approved equipment is used for the intended STS operation?  Total score  Total score  Total score  Total score  Total score  Total score  Does the company have ship-specific procedures/instructions (according to IMO guidelines) for the control and management of ships' biofouling to minimize the transfer of invasive aquatic species?  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?  S100.7 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)?  S100.8 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?  Total score  Total score  Total score  Total score  Total score  Total score				$\vdash$		Mini	imun	n rani	kina s	score	require				100 =	100			—	—				0	150
Section   Sect		4200	Ship to Ship Transfer Operations								7		1												
Total score		4200.5	Is it company policy to verify with the STS-operator that approved equipment is used for the																					0	40
Since   Prevention of Pollution				$\blacksquare$		No:			leim						200 -	40						_		0	40
Biofouling Management  Does the company have ship-specific procedures/instructions (according to IMO guidelines) for the control and management of ships' biofouling to minimize the transfer of invasive aquatic species?  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?  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)?  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?  Total score		5000	PREVENTION OF POLITITION	<u> </u>		wiini	iiiiuli	ıı rafil	Killy S	9100	equire	iu iur	eiein	511L 42		40									$\dashv$
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performance monitoring or other relevant datasets (such as increased drag or increased friction)?    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?    Total score   To		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																					0	5
cleaned material and subsequent waste treatment and disposal, when made available in ports?  Total score  0 30		5100.7										_							_					0	5
		5100.8																						0	
				F		Min	imur	n rani	king	score	require				100 =	5								0	30

		CHECKLIST - RANKING CRITERIA - OFFICE A	UDIT	Γ - Ι	LPG	G CA	4RF	RIER	- VI	ERSI	ON:	202	5										
Revision Code	Norm item	RANKING Office - LPG	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl. PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl. IT DEPT	Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	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), glass, bottles, crockery & similar refuse, and dunnage are always delivered to the port reception facilities?																				0	5
		B. Garbage types																					
		B.3 Ashes and clinkers																					
	5200.25	Is it a company policy that all incinerated ashes and clinkers are always delivered to the port reception facilities?																				0	10
		B.4 Cleaning agents & additives																					
	5200.28	Is it a company policy to use <u>non harmful</u> (MARPOL Annex V compliant) cleaning agents and additives for cleaning the deck / external surfaces?																				0	10
		B.5 Plastics																					
	5200.20	Is it a company policy that plastic is never incinerated?																				0	10
	5200.38	Does the company have a policy to reduce the use of disposable and single-use plastics on board (at least focusing on plastic cutlery, dishes & straws and beverages & mineral water bottles in bonded stores)?																				0	10
	5200.41	Does the company have a policy to avoid procuring food items in single servings of plastics pots (for example, replacing small yoghurt pots with decanted supplies in large containers)?																				0	5
	5200.42	Does the company combat micro-plastics in the laundry system by adding a fine filtering mesh to ship's washing machine's outlets to prevent fibres reaching the ocean?																				0	5
	5200.43	Does the company have a procedure that clearly stipulates there should be no dumping of old plastic ropes and mooring lines at sea and encourage to retain them on board until landed ashore for correct disposal?																				0	5
N	5200.44	Does the company install an extra filtration equipment on the main supply line onboard – such as a reverse osmosis (RO) installation – available on different decks in public areas, such as the galley or pantries?  In order to eliminate/reduce bottled water and supply safe drinking water onboard.)																				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
						•						tal sc		200 = 3	-							0	85

		CHECKLIST - RANKING CRITERIA - OFFICE A	UDI	Γ - Ι	LPG	3 C/	٩RR	IER	- VE	RSI	ON :	202	5										
Kevision Code	Norm item	RANKING Office - LPG	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.	Doc. & Impl.	FINANCIAL DEPT.	T DEPT	Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	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 Y	ES, d	choc	ose f	rom I	elow	opti	ons													
		Direct Water Injection																					/
		Fuel Water Emulsification																				/	
		Intake Air Humidification																					
		Slow Steaming			1					-1		1	- 1										1
	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)																					1
	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
												tal sc											95

		CHECKLIST - RANKING CRITERIA - OFFICE A	UDIT	Γ - L	_PG	C/	١RR	IER	- VE	RSIC	ON 2	2025											
Revision Code	Norm item	RANKING Office - LPG	GENERAL MAN.	Joc. & Impl.	аиашту рерт.	Joc. & Impl.	TECHNICAL DEPT.	Joc. & Impl.	NAUTICAL DEPT.  Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT.	Joc. & Impl.	PURCHASING DEPT.	EN ANCIAL DEDT	Doc. & Impl.	T DEPT	Joc. & Impl.	NS- / CLAIM DEPT.	Joc. & Impl.	VOT APPLICABLE	SANKING SCORE	RANKING MAX. SCORE
	5420	SOx Emissions			0		0							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 <u>voluntarily</u> 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
			—		Mini	mura	rank	ina c	core re			al sco		20 - 20								0	120

		CHECKLIST - RANKING CRITERIA - OFFICE A	UDI	T - I	LPG	C/	4RRI	ER -	- VEF	RSIO	)N 2	025										
Revision Code	Norm item	RANKING Office - LPG	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.  Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	IT DEPT.	INS- / CLAIM DEPT.	Doc. & Impl.	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 scor									0	40
					Mini	imum		ng sc	ore rec	quired	for e	lement	5421	= 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, d	choo	se fi	rom b	elow	optio	ns												
		Diesel Particulate Filter																				$\overline{}$
		Diesel Oxidation Catalyst																				
		Electrostatic Precipitator																			_	
												al scor									0	30
					Mini	imum	ı ranki	ng sc	ore rec	quired	for e	lement	5430	= 0								

		CHECKLIST - RANKING CRITERIA - OFFICE A	UDIT	Γ - Ι	-PG	G CA	١RR	IER ·	- VE	RSI	ON 2	2025										
Revision Code	Norm item	RANKING Office - LPG	GENERAL MAN.	Doc. & Impl.	аиашту 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 - CO₂ Emissions			Ĭ																	
		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 (CO <sub>2</sub> 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	hoo	se fi	rom l	elow	optic	ns a	nd fil	II-in su	pple	ement	CO2	- Gloi	MEEP	tab				
		Measures related to Machinery																				
		Measures related to Propulsion and Hull Improvements											I									
		Measures related to Energy Consumers																				
		Measures related to Energy Recovery																		/		
		Measures related to Technical Solutions for optimizing the operations								1										<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	Alternative to 5440.16: Has the company achieved an annual average reduction of at least 1.0% in CO2 emissions per transport work (gCO2/tnm) since 1st Jan 2013?																			0	15

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		CHECKLIST - RANKING CRITERIA - OFFICE A	UDIT	· - I	_PG	CA	RRIE	R - V	ERS	ION	2025	5									
Revision Code	Norm item	RANKING Office - LPG	GENERAL MAN.	Doc. & Impl.	аилту DEPT.	Doc. & Impl.	TECHNICAL DEPT.  Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	Doc. & Impl.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.	FINANCIAL DEPT.	Doc. & Impl.	IT DEPT.	INS- / CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
		Mid term goals (CO <sub>2</sub> reduction through the use of low carbon fuels)																			
М	5440.18	Main propulsion: Does the company have any vessels within their fleet which use low carbon fuels such as:																		0	15
		Low carbon fuels	If YE	S, c	hoos	e fr	om bel	ow op	tions		1	- 1		_		1					
		LNG (Liquefied Natural Gas)														1					
		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 =	:																Д,		
M	5440.19	Power generation: Does the company have any vessels within their fleet which use low carbon fuels such as:																		0	15
		Low carbon fuels	If YE	S, c	hoos	e fro	om bel	ow op	tions												
		LNG (Liquefied Natural Gas)																			
		LPG (Liquefied Petroleum Gas)																			/
		GTL (Gas to liquid) fuel																		,	/
		Bio-diesel																		/	
		Bio-LNG (Bio-methane)																		/	
		Methanol																		/	
		Ethanol																		/	
	1	Dimethyl Ether																		•	
	1	Other: *fill during audit*																	/		
		If others =														-			/		

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Revision Code	Norm item	RANKING Office - LPG	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.	NOTAPPLICABLE	RANKING SCORE RANKING MAX. SCORE
		Long term goals (CO <sub>2</sub> neutral operation through zero carbon fuels)																						
М	5440.20	Main propulsion: Does the company have any vessels within their fleet which use zero carbon fuels such as:																						0 25
		Zero carbon fuels	If Y	ES,	cho	ose f	from	belo	w o	ption	ıs													
		Anhydrous Ammonia																						
		Hydrogen																						
		Fuel Cells (Powered by ammonia or hydrogen)																						
		Batteries																						
		Nuclear																					,	/
		Other: *fill during audit*																						
		If others	-																				/_	
М	5440.21	Power generation: Does the company have any vessels within their fleet which use zero carbon fuels such as:																						0 25
		Zero carbon fuels	If Y	ES,	choo	ose f	from	belo	w o	ption	ıs													
		Anhydrous Ammonia																						/
		Hydrogen																						
		Fuel Cells (Powered by ammonia or hydrogen)																						
		Batteries																						
		Nuclear																					,	/
		Other: *fill during audit*																					/	
		If others:	-		1		ı		1							- 1			ı		I		Κ,	
	5440.22	Does the company have any vessels within their fleet which use renewable energy sources for energy production such as:																						0 25
		Renewable Energy source	If Y	ES,	cho	ose f	from	belo	w o	ption	ıs													
		Wind *fill during audit*																	<u> </u>					
		Solar					1																	
		Other: *fill during audit*	-				1												<u> </u>					
		Wind	1																				/	•
	5440.24	If others:  Does the company take steps to facilitate JIT Arrival of ships (for example, use of BIMCO's Virtual Arrival Clause for Voyage Charter Parties or speed decisions taken by the Master of owned ships to ensure JIT Arrival or implement measures from Port Information Manual by International Taskforce Port Call Optimization or other such measures)?	=																					0 10
												Tot	al sc	ore									1	0 200

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Revision Code	Norm item	RANKING Office - LPG	GENERAL MAN.	Doc. & Impl.	алапту DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.  Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	IT DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	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
					Mini	imum	ı ranki	na sc	ore re	auirea		al sco elemer		41 = 0								0	55
	5450	Newbuild policy			0		0						Ť										
	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
					laar -							al sco					•			•		0	40
	5460	Environmental Ship Index (ESI)			Mini	ımum	o ranki	ng sc	ore re	quirec	i for e	elemer	π 545	ου = U									
	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		J															0	50
					Nation 1							al sco		20 - 0								0	50
					wini	ımum	ı rankı	ng sc	ore re	quirec	ı tor e	elemer	ıt 54t	ou = 0									

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Revision Code	Norm item	RANKING Office - LPG	GENERAL MAN.	Doc. & Impl.	алашту рерт.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.	Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT.	DOC. & Impi.	Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	ІТ DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	RANKING SCORE	RANKING MAX. SCORE
	5500	Sewage Management																					
М		Sewage Treatment Plant; Effluent Sampling/Monitoring; Causal awareness														•							
М	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 relevant MEPC standards?																				0	5
RR	5500.4	Does the company have a procedure to monitor and address any non-compliance in the effluent standards?																				0	5
N		R5500.15-16 alternative to R5500.2 & R5500.4:																			•		
N	5500.15	Is it company policy for ships to have monitoring equipment installed at the discharge line of the Sewage Treatment Plant to continously monitor the effluent quality?																				0	15
N	5500.16	Is it the company policy for ships to have automated logging systems to record the details of the discharged effluent from the Sewage Treatment Plant?																				0	5
N	5500.17	Is it company policy to create awareness concerning the usage of lavatories onboard, that could have negative impact to the performance of the (biological) sewage treatement plant?																				0	5
N		Discharge at port and at sea																			•		
N	5500.12	Does the company have a mechanism in place to hold sewage on board to avoid discharging at all ports?																				0	10
N	5500.11	Is it company policy to ensure that ships treat sewage with a sewage treatment plant before discharging effluents at sea?																				0	10
M/RR	5500.10	Alternative to all the above (applicable for short-haul vessels)  Is it company policy to ensure that ships deliver all their sewage / sewage sludge (regardless of treated or untreated) to port reception facilities (where available)?																				0	45
RR RR					Mini			leine e					l scor		0 - 20						•	0	45
KK	5510	Grey Water Management			MILLI	mum	rani	Killy S	COLE	requ	iired 1	or el	ement	350	0 - 20								
	5510.1	Is it company policy to install a sewage treatment plant capable of treating grey water?																				0	15
	5510.1	Is it company policy to install a sewage treatment plant capable of treating grey water:	+							-		$\dashv$		+		1						0	10
	0010.2	is a company policy to not disonarge grey water within coastal and port areas?	$\vdash$				<u> </u>					Tota	l scor	e		1						0	
					Mini	imum	n rani	king s	core	requ			lement		0 = 0								

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Revision Code	Norm item	RANKING Office - LPG	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.  Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	IT DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	RANKING SCORE	RANKING MAX. SCORE
57	700	Ballast Water Management					0		0													
		For ships required to follow D-1 standard (as per International Ballast Water Management Certificate (IBWMC))																				
57		Are tasks & responsibilities of shipboard personnel assigned to ballast water exchange operations defined, documented & controlled ?																			0	5
57		Does the office support the master in cases where the ship cannot reasonably be expected to carry out ballast water exchange?																			0	5
57		Does the company ensure that relevant ships voluntarily comply with D-2 ballast water management standard using a type-approved ballast water treatment system (BWTS)?																			0	10
		For ships required to follow D-2 standard (as per International Ballast Water Management Certificate (IBWMC))																				
57	700.11	Does the company develop ship-specific contingency plans taking into account system design limitations, for example, - the UV-based BWTS cannot operate correctly in ports where the water is very muddy, - when operating in low salinity ports, the crew should plan to carry enough salt water or brine in order for the electrochlorination BWTS to function effectively.																			0	10
57	700.12	Does the company ensure the following in order to keep the BWT systems on board in operable condition: - maintain full inventory of manufacturer recommended spare parts list on board - define & maintain safe-margin stock of consumables on board (such as chemicals with short shelf-life, UV lamps, etc. as required by the installed system)																			0	5
57	700.14	Does the company train relevant crew to operate ship-specific BWT systems, for example, by means of computer-based training, training at the makers facilities or on a simulation BWMS that mimics real BWTS operations?																			0	10
57		Does the company conduct on-board familiarization of relevant crew for the operation of the BWTS installed on board?																			0	10
57		In addition to the relevant crew, does the company include shore-based management (ship managers/superintendents/port engineers) in the BWMS training programs?																			0	5
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Norm item	RANKING Office - LPG	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.	Doc. & Impl. NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
B01	Protection of fuel oil tanks, lube oil tanks and hull								_	_		_		_								
	For Owner / Managers only (Not applicable to 3rd-party ship managers)																					
B01.4	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
				MAir	nimun	rank	ina co	2010 100	uirod				01 -	0							0	30
	Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)			IVIII	minuli	ı ranıkı	ing st	core req	uneu	ioi e	iemei	111 30										
810						0							0									
810.1		er																			0	60
B10.6	Alternative for 5810.1 & 5810.3:  Does the company install a class approved stern tube <u>water</u> lubricated system which uses <u>fresh</u> <u>water</u> as a lubricant? (system includes water and conditioning and monitoring equipment)  *Additives used to maintain the condition of the water should be environmentally friendly.																				0	50
810.3	Alternative for 5810.1 & 5810.6: Is there a company policy to fit vessels with a class approved stern tube lubrication system with a air type or void space seal?																				0	25
				Mir	nimun	ranki	ina ca	oro roa	uirod				10 -	n						•	0	60
B11	Mooring wire lubrication			IVIII	Illinuii		ilig sc	Lore req	uneu	loi e	lemen	111 30	_									
811.1		?																			0	20
				·																	0	20
042	Dock aguinment lubrication (use of ails)			Mir	nımun		ing so	core req	uired	or e	lemei	nt 58		U								
		_				•							•								0	15
		+																-				10
812.3	Is it company policy to use hydraulic oil that is certified according to the EEL in mooring and anch	or																			0	10
812.4	Is it company policy to use hydraulic oil that is certified according to the EEL in crane appliances?	$\top$																			0	10
		en																				
812.6	Due to characteristics of environmentally friendly lubricants (EEL certified) are extra measures tal into account for the applicable system if needed? (e.g. condition of seals & filters, temperature & condition of oil, prevention of humidity ingress etc.)										al sco										0	10
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	101.4 101.4 110.1 110.6 110.3 111.1 112.1 112.1 112.2	Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  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)?  Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Stern tube lubrication  Does the company install a class approved stern tube water lubricated system which uses sea wat as a lubricant? (system includes water conditioning and monitoring equipment)  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.  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?  Mooring wire lubrication  Is it company policy to use a mooring wire lubricant / grease that is certified according to the EEL (all deck equipment)?  Is it company policy to use grease that is certified according to the EEL (all deck equipment)?  Is it company policy to use grease that is certified according to the EEL (all deck equipment)?  Is it company policy to use grease that is certified according to the EEL (all deck equipment)?  Is it company policy to use grease that is certified according to the EEL (all deck equipment)?	RANKING Office - LPG  Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  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)?  Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Stern tube lubrication  Does the company install a class approved stern tube water lubricated system which uses sea water as a lubricant? (system includes water conditioning and monitoring equipment)  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)  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?  Mooring wire lubrication  Is it company policy to use a mooring wire lubricant / grease that is certified according to the EEL (all deck equipment)?  Is it company policy to use grease that is certified according to the EEL (all deck equipment)?  Is it company policy to use grease that is certified according to the EEL (all deck equipment)?  Is it company policy to use spease oil that is certified according to the EEL (all deck equipment)?  Is it company policy to use spease that is certified according to the EEL (all deck equipment)?  Is it company policy to use spease oil that is certified according to the EEL (all deck equipment)?  Is it company policy to use spease that is certified according to the EEL (all deck equipment)?	Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  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)?  Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Stern tube lubrication  Does the company install a class approved stern tube water lubricated system which uses sea water as a lubricant? (system includes water conditioning and monitoring equipment)  Alternative for 5810.1 & 5810.5:  The sternative for 5810.1 & 5810.5:  In the sternative for 5810.1 &	RANKING Office - LPG  Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  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)?  Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Stern tube lubrication  Does the company install a class approved stern tube water lubricated system which uses sea water as a lubricant? (system includes water conditioning and monitoring equipment)  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)  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 yold space seal?  Mill  Mooring wire lubrication  Is it company policy to use a mooring wire lubricant / grease that is certified according to the EEL?  Deck equipment lubrication (use of oils)  Is it company policy to use grease that is certified according to the EEL (all deck equipment)?  Is it company policy to use gear oil that is certified according to the EEL (all deck equipment)?  Is it company policy to use pager oil that is certified according to the EEL in mooring and anchor	Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  101.4 Seel or structural features to build (a part of) hull structure and/or fuel tanks of new ships (for example, sandwich plate structure)?  102. Minimum  Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  103. Stern tube lubrication  104. Does the company install a class approved stern tube water lubricated system which uses sea water as a lubricant? (system includes water conditioning and monitoring equipment)  105. Water as a lubricant? (system includes water and conditioning and monitoring equipment)  106. Water as a lubricant? (system includes water and conditioning and monitoring equipment)  107. Alternative for 5810.1 & 5810.3: 108. 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)  107. Alternative for 5810.1 & 5810.3: 108. The property of the water should be environmentally friendly.  109. Alternative for 5810.1 & 5810.6: 109. Is it company policy to use a mooring wire lubricant? (grease that is certified according to the EEL.?  109. Minimum  100. Minimum  100. Minimum  101. Is it company policy to use grease that is certified according to the EEL (all deck equipment)?  109. It is it company policy to use grease that is certified according to the EEL (all deck equipment)?  109. It is it company policy to use grease in that is certified according to the EEL in mooring and anothor	Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  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)?  Minimum rank  Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Stern tube lubrication  Does the company install a class approved stern tube water lubricated system which uses sea water as a lubricant? (system includes water conditioning and monitoring equipment)  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)  Alternative for 5810.1 & 5810.3:  Is there a company policy to fit vessels with a class approved stern tube lubrication system with an air type or void space seal?  Minimum rank  Minimum rank  Is it company policy to use a mooring wire lubricant / grease that is certified according to the EEL?  Minimum rank  Is it company policy to use grease that is certified according to the EEL (all deck equipment)?  Is it company policy to use grease that is certified according to the EEL (all deck equipment)?  Is it company policy to use grease it that is certified according to the EEL (all deck equipment)?	Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  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)?  Minimum ranking st  Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Stern tube lubrication  Does the company install a class approved stern tube water lubricated system which uses sea water as a lubricant? (system includes water conditioning and monitoring equipment)  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)  Alternative for 5810.1 & 5810.5:  Is there a company policy to fit vessels with a class approved stern tube lubrication system with an air type or void space seal?  Minimum ranking st  Minimum ranking st  Minimum ranking st  Is it company policy to use a mooring wire lubricant / grease that is certified according to the EEL?  Minimum ranking st  Minimum ranking st  Is the company policy to use a mooring wire lubricant / grease that is certified according to the EEL?  Minimum ranking st  Minimum ranking st  Is to company policy to use grease that is certified according to the EEL (all deck equipment)?  Is it company policy to use grease that is certified according to the EEL (all deck equipment)?  Is it company policy to use grease it that is certified according to the EEL (all deck equipment)?	RANKING Office - LPG  Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  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)?    Winimum ranking score required tuberication   Lubrication as a lubricant? (system includes water and one official as a lubricant? (system includes water and one official as a lubricant? (system includes water and one official as a lubricant? (system includes water and one official as a lubricant? (system includes water and one official as a lubricant? (system includes water and one official as a lubricant? (system includes water and one official as a lubricant? (system includes water and one official as a lubricant? (system includes water and one official as a lubricant? (system includes water and one official as a lubricant? (system includes water and one official as a lubricant? (system includes water and one official as a lubricant? (system includes water and one official as a lubricant? (system includes water and one official as a lubricant? (system includes water and one official as a lubricant? (system includes water and one official as a lubricant?) (system includes water and one official as a lubricant) (system includes water and one official as a lubricant?) (system includes water and one official as a lubricant?) (system includes water and one official as a lubricant?) (system includes water and one official as a lubricant?) (system includes water and one official as a lubricant?) (system includes water and one official as a lubricant?) (system includes water and one official as a lubricant?) (system includes water and one official as a lubricant?) (system includes water and one official as a lubricant?) (system includes water and one official as a lubricant?) (system includes water and one official as a lubricant?) (syste	RANKING Office - LPG  Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  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)?  Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Stern tube lubrication  Does the company install a class approved stern tube water fubricated system which uses sea water as a lubricant? (system includes water conditioning and monitoring equipment)  Alternative for 5810.1 & 5810.5:  Is there a company policy to fit vessels with a class approved stern tube lubrication system with an air type or yold space seal?  Minimum ranking score required:  Alternative for 5810.1 & 5810.5:  Is the care a company policy to fit vessels with a class approved stern tube lubrication system with an air type or yold space seal?  Minimum ranking score required:  It is it company policy to use a mooring wire lubricant / grease that is certified according to the EEL?  Minimum ranking score required:  Minimum ranking score required:  Minimum ranking score required:  It is it company policy to use gear oil that is certified according to the EEL (all deck equipment)?  It is it company policy to use gear oil that is certified according to the EEL (all deck equipment)?  It is it company policy to use yearse that is certified according to the EEL (all deck equipment)?	Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  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)?  Lubrication and Use of Oils (Element nr.: 5\$10, 5\$11 & 5\$12)  Stern tube lubrication  Does the company install a class approved stern tube water lubricated system which uses sea water as a labricant? (system includes water conditioning and monitoring equipment)  *Alternative for 5\$10.1 & 5\$10.3:  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.  *Alternative for 5\$10.1 & 5\$10.6:  Is the rea company policy to fit vessels with a class approved stern tube lubrication system with an air type or void space seal?  **Mooring wire lubrication**  Minimum ranking score required for example, and the properties of the sea of the sea of the sea of the properties of the sea	Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  Does the company require ship building yards to use advanced shipbuilding plates (highly ductile steel) or structural elatures to build (a part of) hull structure and/or fuel tanks of new ships (for example, sandwich plate structure)?  Stern tube lubrication  Stern tube lubrication  Stern tube lubrication  Stern tube lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Stern tube lubrication  Stern tube lubrication  Atternative for 5810.1 & 5810.3:  Does the company install a class approved stern tube water lubricated system which uses sea water as a lubricant? (system includes water conditioning and monitoring equipment)  Atternative 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)  Atternative 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?  Total sectors  Minimum ranking score required for eleme  12.1 beck equipment)?  Is it company policy to use gear oil that is certified according to the EEL (all deck equipment)?  Is it company policy to use gear oil that is certified according to the EEL (all deck equipment)?	Protection of fuel oil tanks, tube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  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)?  Stern tube lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Stern tube lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Stern tube lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Alternative for 5810.1 & 5810.3:  Does the company install a class approved stern tube water (ubricated system which uses sea water as a lubricant? (system includes water and conditioning and monitoring equipment)  Alternative for 5810.1 & 5810.3:  Is there a company policy to (system includes water and conditioning and monitoring equipment)  Alternative for 5810.1 & 5810.8:  Is there a company policy to fit vessels with a class approved stern tube lubrication system with an air type or void space seal?  Total score  Minimum ranking score required for element 58  Total score  Minimum ranking score required for element 58  See the company policy to use a deal of the score in the EEL (all deck equipment)?  Is it company policy to use gaze all that is certified according to the EEL (all deck equipment)?	Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  Does the company require ship building yards to use advanced shipbuilding plates (highly ducille steel) or structural features to build (a part of) hull structure and/or fuel tanks of new ships (for example, sandwich plate structure)?  Stern tube lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Stern tube lubrication and Use of Oils (Element tanks of new ships (for example, sandwich plate structure)?  Alternative for 5810.1 & 5810.3:  Does the company install a class approved stern tube water (ubricated system which uses sea water as a lubricant? (system includes water conditioning and monitoring equipment)  Alternative for 5810.1 & 5810.3:  Does the company install a class approved stern tube water (ubricated system which uses sea water as a lubricant?) (system includes water and conditioning and monitoring equipment)  Alternative for 5810.1 & 5810.3:  Is there a company policy to (five sease) with a class approved stern tube lubrication system with an air type or void space seal?  Total score  Minimum ranking score required for element 5810 =  Minimum ranking score required for element 5811 =  Deck equipment lubrication (use of oils)  Is it company policy to use gaze all that is certified according to the EEL (all deck equipment)?  Is it company policy to use gaze all that is certified according to the EEL (all deck equipment)?  Is it company policy to use gaze all that is	Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  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)?  Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Stem tube lubrication  Does the company install a class approved stem tube water lubricated system which uses sea water as a lubricant? (system includes water conditioning and monitoring equipment)  Alternative for 5810.1 & 5810.8:  Does the company install a class approved stem tube water lubricated system which uses fresh water as a lubricant? (system includes water conditioning and monitoring equipment)  Alternative for 5810.1 & 5810.8:  Si there a company policy to fit vessels with a class approved stem tube lubrication system with an air type or yold space seal?  Total score  Minimum ranking score required for element 5811 = 0  Minimum ranking score required for element 5811 = 0  Total score  Minimum ranking score required for element 5810 = 0  Minimum ranking score required for element 5811 = 0  Total score  Minimum ranking score required for element 5811 = 0  It is it company policy to use a mooring wire lubricant / grease that is certified according to the EEL.?  Total score  Total score required for element 5811 = 0  It is it company policy to use grease that is certified according to the EEL (all deck equipment)?  Is it company policy to use grease that is certified according to the EEL (all deck equipment)?  Is it company policy to use grease that is certified according to the EEL (all deck equipment)?  Is it company policy to use grea will that is certified according to the EEL (all deck equipment)?	Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-parry ship managers)  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)?  Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Stern tube lubrication  Does the company install a class approved stern tube water lubricated system which uses sea water as a lubricant? (system includes water and conditioning and monitoring equipment)  Alternative for 5810.1 & 5810.8:  Sib there a company policy to fit vessels with a class approved stern tube lubrication system with an air type or yold space seal?  Total score  Minimum ranking score required for element 5810 = 0  Minimum ranking sco	Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  Dese 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)?  Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  10. Stern tube lubrication  Does the company install a class approved stern tube water lubricated system which uses gea water as a lubricant? (system includes water and conditioning and monitoring equipment)  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)  Alternative for 5810.1 & 5810.3:  Stern tube lubrication  Alternative for 5810.1 & 5810.3:  Total score  Minimum ranking score required for element 5810 = 0  Minimum ranking score required	Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  Does the company require ship building yaxids to use advanced shipbuilding plates (highly ducille steel) or structural features to build (a part of) hull structure and/or fuel tanks of new ships (for example, sandwich plate structure)?  Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Stern tube lubrication  10.1 Does the company require ship building yaxids to use advanced shipbuilding plates (highly ducille steel) or structural features to build (a part of) hull structure and/or fuel tanks of new ships (for example, sandwich plate structure)?  Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Stern tube lubrication  10.1 Does the company restall a class approved stern tube water ship shippuilding plates (highly ducille steel) or structural features to build be evaluated as a lubrication and use of Oils (Element nr.: 5810, 5811 & 5812).  Does the company install a class approved stern tube water shippuilding plates (highly ducille steel) or structural features to build be provided for element \$501 = 0  Minimum ranking score required for element \$501 = 0  Minimum ranking score required for element \$510 = 0  Minimum ranking score required for element \$510 = 0  Minimum ranking score required for element \$510 = 0  Minimum ranking score required for element \$510 = 0  Minimum ranking score required for element \$510 = 0  Minimum ranking score required for element \$510 = 0  Minimum ranking score required for element \$510 = 0  Minimum ranking score required for element \$510 = 0  Minimum ranking score required for element \$510 = 0  Minimum ranking score required for element \$510 = 0  Minimum ranking score required for element \$510 = 0  Minimum ranking score required for element \$510 = 0  Minimum ranking score required for element \$510 = 0  Minimum ranking score required for element \$510 = 0  Minimum ranking score required for element \$510 = 0  Minimum ranking score requir	Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  Does the company require ship building yate's 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??  Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Stem tube lubrication  Stem tube lubrication  Alternative for 5810.1 & 5810.8:  Is the company require of relevant all cass approved stem tube water ubricated system which uses sea water as a lubricant? (system includes water and conditioning and monitoring equipment)  Alternative for 5810.1 & 5810.8:  Is the company policy to use a moorling wire lubrication (use of oils)  Monitoring wire lubrication  Monitoring wire lubrication  Monitoring wire lubrication  Does dequipment flubrication (use of oils)  Is it company policy to use grease that is certified according to the EEL. (all deck equipment)?  Does dequipment lubrication (use of oils)  Is to company policy to use grease that is certified according to the EEL. (all deck equipment)?  Is it company policy to use grease that is certified according to the EEL. (all deck equipment)?  Is it company policy to use grease that is certified according to the EEL. (all deck equipment)?  Is it company policy to use grease that is certified according to the EEL. (all deck equipment)?  Is it company policy to use grease that is certified according to the EEL. (all deck equipment)?  Is it company policy to use grease that is certified according to the EEL. (all deck equipment)?  Is it company policy to use grease that is certified according to the EEL. (all deck equipment)?  Is it company policy to use grease that is certified according to the EEL. (all deck equipment)?	Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  Does the company restrict should (a part of) hull structure and/or fuel tanks of new ships (for example, sandwich plate structure)?  Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Stem tube lubrication  10.1 Does the company install a class approved stem tube water lubricated system which uses gea water as a lubricarit? (system includes water and conditioning and monitoring equipment)  10.5 Stem tube lubrication  10.6 Does the company install a class approved stem tube water lubricated system which uses fresh yaddres are a lubricari? (system includes water and conditioning and monitoring equipment)  10.6 Monitorari? (system includes water and conditioning and monitoring equipment)  10.7 Alternative for \$810.1 & \$810.3 & \$810.8 & \$810.3 & \$810.8 & \$810.3 & \$810.8 & \$810.3 & \$810.8 & \$810.3 & \$810.8 & \$810.8 & \$810.3 & \$810.8 & \$810.	Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  Does the company restitute should (a part of) hull structure and/or fuel tanks of new ships (for example, sandwich plate structure)?  Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Sterm tube lubrication  10.1 Does the company install a class approved sterm tube water (lubricated system which uses sea water as a lubricant? (system includes water and conditioning and monitoring equipment)  10.5 Sterm tube lubrication  10.6 Does the company install a class approved sterm tube water (lubricated system which uses fresh vader er as a lubricant? (system includes water and conditioning and monitoring equipment)  10.6 Managers on the water should be environmentally friendly.  10.7 Alternative for 5810.1 & 5810.3 Sign. 1 & 5810.3 S	Protection of fuel oil tanks, lube oil tanks and hull  For Owner / Managers only (Not applicable to 3rd-party ship managers)  Desc the company require ship building yards to use advanced shipbuilding plates (highly ductile example, sandwich plate structure)?  Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Stem tube lubrication  10.1  Atternative for 5810.1 & 5810.8:  Does the company install a class approved stem tube water buricated system which uses sea water as a burbiantify (system includes water conditioning and monitoring equipment)  Atternative for 5810.1 & 5810.8:  Stem tube lubrication  Atternative for 5810.1 & 5810.8:  Stem tube lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Atternative for 5810.1 & 5810.8:  Stem tube lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Atternative for 5810.1 & 5810.8:  Stem tube lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)  Minimum ranking score required for element 5801 = 0  Minimum ranking score required for element 5801 = 0  Minimum ranking score required for element 5810 = 0  Minimum ranking score required for element 5810 = 0  Minimum ranking score required for element 5810 = 0  Minimum ranking score required for element 5810 = 0  Minimum ranking score required for element 5810 = 0  Minimum ranking score required for element 5810 = 0  Minimum ranking score required for element 5810 = 0  Minimum ranking score required for element 5810 = 0  Minimum ranking score required for element 5811 = 0  Mooring wire lubrication  11.1 is it company policy to use a mooring wire lubricant / grease that is certified according to the EEL (all deck equipment)?  12.2 Dock equipment lubrication (use of oils)  13.3 is a company policy to use grease that is certified according to the EEL (all deck equipment)?  13.5 is a company policy to use grease that is certified according to the EEL (all deck equipment)?  14.5 is a company policy to use grease that is certified according to the EEL (all deck equipment)?  15.5 is a company poli

		CHECKLIST - RANKING CRITERIA - OFFICE A	UDI	T - I	LPC	3 C/	ARF	RIEF	R - VI	ERS	ION	202	5											
Revision Code	Norm item	RANKING Office - LPG	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.	Doc. & Impl.	IT DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	NOTAPPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	5820	Management of bilge water and sludge handling onboard		_	0		0		0		0	0					_							
	5820.3	Is it company policy to familiarize engine room personnel with on board sludge and bilge water management procedures?																					0	10
	5820.4	Is it company policy to ensure that all engine room personnel are familiar with the system layout, drawings and manuals?																					0	5
	5820.5	Is it company policy to include Sludge/Bilge and Soot collection tanks in the PMS for regular cleaning / inspection?																					0	5
	5820.6	Is it company policy to build vessels with bilge and sludge handling system in accordance with the MEPC.1/Circ. 642 guidelines?																					0	5
					Min	imun	ı ran	kina	score	eanii		otal s		820 =	- 15								0	25
	5821	Outfitting of bilge water system			0	un	0	y	O	÷	o loi	O	J.A. S											
		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?																					0	5
	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?																					0	5
		B. 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?																					0	5
		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)?																					0	10
	5821.5	Is it company policy to pump Oily bilge water from the Oily bilge water holding tank through the Oily Water Separator to the Clean water tank (rather than overboard discharge)?																					0	5
		D. Oily water separator / Oil content meter																						
	5821.6	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)																					0	5
	5821.7	Are instructions available in the management system to avoid that the Oil Content Meter is flushed/diluted with clean water during Oily Water Separator operation or is an equipment or a protection system installed (e.g. White Box) to prevent illegal discharges of bilge water from machinery spaces?																					0	10
	5821.8	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.?																					0	5
		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
			1								T	otal s	core										0	50

		CHECKLIST - RANKING CRITERIA - OFFICE A	UDI	Γ - Ι	_PG	CA	RRI	ER ·	- VEF	RSIC	ON 2	2025	5											
Revision Code	Norm item	RANKING Office - LPG	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEPT.  Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT.	Doc. & Impl.	PURCHASING DEPT.	Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	IT DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	5822	Outfitting of sludge handling system			0		0		0			0										Ì		
	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
					Mini		en n lei		ore rec			al sc		222 -	10								0	20
	5900	Ship Recycling - Inventory of Hazardous Materials	0		0	IIIuiii	0	ig sc	ore rec	uireu	1101 (	Jeine	ant Se	522 -										
		New buildings - For Owner / Managers and 3rd-party Ship Managers For 5900.1, 5900.12 and 5900.2																						
		1FOF 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
	5900.1 5900.12	Does the company require the shipyard to develop an "Inventory of Hazardous Materials" (Part I) at																					0	40 10
		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)  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)	'																					
	5900.12	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)  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)  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																					0	10
	5900.12	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)  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)  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)  Existing ships - For Owner / Managers and 3rd-party Ship Managers																					0	10
	5900.12 5900.2	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)  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)  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)  Existing ships - For Owner / Managers and 3rd-party Ship Managers For 5900.10 and 5900.13  Is each Green Award-certified company vessel in the possession of an "Inventory of Hazardous																					0	10
	5900.12 5900.2 5900.10	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)  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)  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)  Existing ships - For Owner / Managers and 3rd-party Ship Managers For 5900.10 and 5900.13  Is each Green Award-certified company vessel in the possession of an "Inventory of Hazardous Materials" (Part I completed)?  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																					0 0	10 10 40

		CHECKLIST - RANKING CRITERIA - OFFICE A	JDI	T - L	_PG	C A	ARR	IER -	- VEI	RSIC	N 2	2025										
Revision Code	Norm item	RANKING Office - LPG	GENERAL MAN.	Doc. & Impl.	аиашту рерт.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAU IICAL DEPI. Doc. & Impl.	PERSONNEL DEPT.	Doc. & Impl.	OPER./CHART DEPT.	PURCHASING DEPT	Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	Doc. & Impl.	NS- / CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	5910	Ship Recycling - Policy for ships due to be recycled	0		0		0															
		For Owner / Managers only (Not applicable to 3rd-party ship managers)																				
	5910.8	Has a company policy been implemented within the Management System that end-of-life vessels will only be recycled at a recycling facility either compliant with the requirements of the Hong Kong Convention or on the EU-list? (regardless of being sold directly to a recycling facility or to a cash buyer)?																			0	20
	5910.2	Has a company procedure been implemented within the Management System to audit a recycling facility before concluding a "contract of sale"?																			0	10
	5910.4	Has a company policy been implemented that the "contract of sale" will include the requirement to develop a "Ship Recycling Plan" by the recycling facility (in consultation with the owner) or does the "contract of sale" with the cash buyer include the obligation to request such a plan upon sale to the recycling facility?																			0	20
	5910.5	Has a company procedure been implemented within the Management System that a Final Survey, by an independent organization, will be carried out on the "Inventory of Hazardous Materials" (Part I, Part II and Part III) before delivery to either the recycling facility or cash buyer?																			0	20
	5910.6	(Preparation of vessel before delivery) Has a company procedure been implemented to ensure that the vessel's cargo spaces & other compartments where possible, will be delivered to either the recycling facility or cash-buyer in a "gas-free & safe for entry and hot work" condition?																			0	20
	5910.7	(Preparation of vessel before delivery) Has a company procedure been implemented to clearly mark all compartments which could have an oxygen deficient or dangerous atmosphere? ( e.g. cofferdams, fuel oil tanks, waste oil tanks, black/grey water tanks, etc.)																			0	20
	5910.9	Does the company disclose it's ship recycling policy in a public domain (such as company website) or via an environmental initiative such as SRTI (Ship Recycling Transparency Initiative)?																			0	10
		Policy regarding monitoring the recycling of company vessels														•						
	5910.10	Has a company procedure been implemented within the Management System to deploy a full-time personnel at the recycling facility for the entire duration of recycling of the company vessels (to monitor and report the recycling process)?																			0	20
	5910.11	Alternative to 5910.10 & 5910.12 Has a company procedure been implemented within the Management System to hire third-parties (consultants or cash buyers) for continuous monitoring and reporting of the recycling process employed by the recycling facility to dismantle the company vessels?																			0	10
	5910.12	Alternative to 5910.10 & 5910.11 Has a company procedure been implemented within the Management System to audit the recycling facility during the recycling of the company vessels?																			0	5
					Mini	mum	ranki	ina sc	ore re-	nuired		al scor		0 = 60							0	140

		CHECKLIST - RANKING CRITERIA - OFFICE A	JDIT	- L	.PG C	ARF	RIER -	- VEF	RSIO	N 2	025										
Revision Code	Norm item	RANKING Office - LPG	GENERAL MAN.	Doc. & Impl.	QUALITY DEPT.  Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	NAUTICAL DEFIT.  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	NAMAING SCORE	RANKING MAX. SCORE
	6000	MAINTENANCE / SURVEYS																			
	6100	Programme of Inspections				0	•	0													
	6100.1	Has the company developed an internal technical inspection programme?																	(	0	10
	6100.2	Does the company have relevant previous survey and internal technical inspection reports?																	(	0	10
	6100.3	Does the company have a repair history on each vessel?																	(	0	10
	6100.4	Does the company have procedures/instructions for hull / ship's construction condition-inspections to be carried out by ship's personnel?																	(	0	20
	6100.6	Does the company have information regarding the relevant maintenance level of the vessel?																	(	0	10
	6100.7	Is an owner's inspection report available?																	(	0	10
				_	Minimun						l score		- 00						(	0	70
	6110	Critical and Stand-by Equipment	0		O	O	King Sc	ore req	uirea	ior e	lement	0100	- 60								
	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?																	C	0	10
	6110.6	Are those event reports considered in creating a list of critical equipment?																	(	)	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
					Minimun						al score								(	0	75

		CHECKLIST - RANKING CRITERIA - OFFICE A	JDIT	Γ - Ι	_PG	C/	ARRI	IER	- VEF	RSIO	N 2	025										
Revision Code	Norm item	RANKING Office - LPG	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 рерт.	Doc. & Impl.	INS- / CLAIM DEP I. Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	6200	Mooring Equipment					0						0									
	6200.1	Does the company have instructions for carrying out winch brake tests (to be carried out at least once a year or after an excessive load)?	'														'				0	10
	6200.2	Does the company provide the ship with a winch brake test kit?																			0	5
	6200.5	Are inspection, maintenance and discard criteria for mooring wires and tails / fibre ropes established and carried out by a competent person? (time interval for inspection should be in the PMS)																			0	10
	6200.8	Do these criteria take manufacturer's recommendations into account ?																			0	10
	6200.9	Does the company give guidance for an additional examination after unusual events such as long periods of inactivity, excessive loads, heat exposure, loading/discharge at swell ports, etc?																			0	5
	6200.10	Does the company give instructions for internal inspections and do these inspections take manufacturer's recommendations into account?																			0	10
	6200.11	Are the lubricants & cleaning products compatible with the wire and approved by the wire manufacturer?																			0	5
	6200.6	Is a log for "workingdays" of mooring wires and tails / fibre ropes maintained? (to predict the point of discard & for evaluation of wire/rope performance)																			0	10
	6200.7	Does the company provide the ship(s) with an automatic wire rope lubricator?																			0	10
	6200.12	Alternative for 6200.7: (for fibre ropes) Are there procedures for care of fibre ropes?																			0	10
					Mini	mum	ranki	na s	core rec	uired		l score	3200 =	- 45							0	75
	6300	Corrosion Prevention of Seawater Ballast Tanks					0	ng 5		uncu	.0. 0.	CITICITE										
	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?						ı													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
					BA: '		wa1.		core rec			l score	2200	- 40							0	75

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Revision Code	Norm item	RANKING Office - LPG	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.	IT DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	NOTAPPLICABLE	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 <u>15 years old</u> , or by the <u>end of the 3rd special survey</u> , whichever is earlier?																				0	25
	6400.8	Is it company policy that a condition assessment for <u>Cargo Systems</u> will be carried out on vessels more than <u>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 <u>15 years old</u> , or by the <u>end of the 3rd special survey</u> , whichever is earlier?																				0	20
	6400.12	Is it company policy to request ship owners to carry out condition assessment for <u>Machinery</u> on vessels more than <u>15 years old</u> , or by the <u>end of the 3rd special survey</u> , whichever is earlier?																				0	20
	6400.3	Is it company policy that maintenance meetings are carried out on board? (e.g. each month and at (all) sections on board)																				0	10
	6400.4	Is a maintenance checklist used regarding the (monthly) maintenance inspection?																				0	10
	6400.5	Is an evaluation report of vessel's performance sent to the company?																				0	20
	6400.6	Is an annual technical report made by the Company's superintendent?																				0	15
												tal sco										0	120
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Revision Code	Norm item	RANKING Office - LPG	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
	7000	CREW																				
	7100	Employment of Personnel								0												
	7100.1	Is it company policy to employ all ship-personnel on a permanent basis?																			0	30
		Alternative for 7100.1 (7100.2, 7100.3, 7100.4)																				
	7100.2	Is it company policy to employ senior officers on a permanent basis?																			0	10
	7100.3	Is it company policy to employ officers on a permanent basis?																			0	10
	7100.4	Is it company policy to employ ratings on a permanent basis?																			0	10
					Mini	mum	rankir	20.00	ore requ			l score		- 0							0	30
	7200	Extra Personnel, Additional Green Award Requirement				IIIuii	O	ig sci	ore requ	0		ement	1100 -									
	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
	7200.5	Is it company policy to employ a gas engineer onboard ?																			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
												l score									0	90
			l		Mınlı	mum	rankir	ng sc	ore requ	uired	tor el	ement	/200 =	= 40								

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Revision Code	Norm item	RANKING Office - LPG	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.	Doc. & Impl.	FINANCIAL DEPT.	oc. a mp.	IT DEPT. Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE	
M/RR	7300	Training / Courses for Personnel Additional Green Award Requirements & IMO Model Courses		_						0														
	7300.1	Is it company policy that the 2nd officer (deck) must complete an approved Advanced training for Liquified gas tanker cargo operations? (As a minimum, the program should comply with STCW 2010 including Manila amendments Reg V/1-2)																·				0	5	
	7300.2	Is it company policy that all onboard personnel are trained and qualified according to the approved Basic training for Liquified tanker cargo operations? (as STCW 2010 including Manila amendments Reg V/1-2) (If training comprises at least 3 months approved seagoing service on tankers (instead of an approved tanker familiarization course) this should include onboard computer-based training (CBT) and a documented system showing participation and qualifications).																				0	5	
	7300.5	Does the company provide "onboard assessment/train the trainer" courses for the onboard management (IMO 1.30) ?																				0	10	
	7300.6	Does the company provide simulator training /courses for officers involved in cargo and ballast handling (IMO 1.35) ?																				0	15	
	7300.7	Does the company provide "Marine Environmental Awareness" course (IMO 1.38) for all the ship personnel?																				0	10	
	7300.21	Does the company provide "Marine Environmental Awareness" course (IMO 1.38) to the technical superintendents?																				0	5	
	7300.22	Does the company provide "Marine Environmental Awareness" (IMO 1.38) to the HSQE manager?																				0	5	
	7300.8	Does the company provide bridge team management/ bridge resource management training / course for all deck officers (IMO 1.22) ?																				0	5	
	7300.19	Does the company provide engine room resource management training/courses for all engine officers ?																				0	5	
	7300.20	Alternative for 7300.8 & 7300.19  Does the company provide maritime resource management course for all officers?																				0	10	
	7300.9	Does the company have a structured program for refresher and updated training of company related courses at suitable intervals for office and shipboard personnel?																				0	15	
М	7300.10	Is it company policy to hire cadets on board by providing training and education in order to recruit future officers?																				0	15	
	7300.12	Is it company policy that all senior officers (Master, Chief Officer, Chief Engineer, 2nd Engineer and Gas Engineer) have completed the Liquid Cargo Operations Simulator (LICOS) course as recommended by SIGTTO for senior officers and relevant to cargo containment type?																				0	10	
	7300.13	Is it company policy that all junior officers (2nd Officer, 3rd Officer, 3rd Engineer and 4th Engineer) have completed the Liquid Cargo Operations Simulator (LICOS) course as recommended by SIGTTO for junior officers and relevant to cargo containment type?																				0	20	
RR	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	20	
	7300.15	Is the system as meant in 7300.14 audited and certified by an IACS member classification society?																				0	20	
RR RR					Min	imum	rank	cina s	core re	auire		al sco		00 = 9	5				•			0	165	

		CHECKLIST - RANKING CRITERIA - OFFICE A	UDIT	Γ - Ι	_PG	CA	RRI	ER -	VEF	RSIC	ON 2	2025										
Revision Code	Norm item	RANKING Office - LPG	GENERAL MAN.	Doc. & Impl.	аиашту DEPT.	Doc. & Impl.	TECHNICAL DEPT.	Doc. & Impl.	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
	7400	Familiarisation, Additional Green Award Requirement						•		0												
	7400.1	Is it company policy that the shipboard crew after a period of absence or leave has been provided with familiarization of changes with regard to the operations/machinery which is related to their position?																			0	20
	7400.2	Is it company policy that newly employed personnel are provided with familiarization with regard to operations/machinery which is related to their position?																			0	20
	7400.9	Does the company have a method in which senior officers are deployed onboard within the company fleet? (eg. Senior officers returning to the same vessel)																			0	10
	7400.8	Does the company have a method in which junior officers are deployed onboard within the company fleet? (eg. Junior officers rotating among the companies fleet)																			0	10
	7400.10	In those cases when junior or senior officers are transferred to another class of ship that differ considerably from where their experience lie, is an onboard appropriate operational experience with previous off-signing officers implemented for a specific minimum period?																			0	10
	7400.4	Is it company policy that a company format handover report is requested from all off-signing officers onboard?																			0	10
					Minin	num	rankii	na ec	ore req	uirod		al sco		0 - 50							0	80

		CHECKLIST - RANKING CRITERIA - OFFICE A	רוסט	Γ - Ι	LPC	G C	ARR	RIER	- VE	RSI	ON 2	2025											
Revision Code	Norm item	RANKING Office - LPG	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.  Doc. & Impl.	FINANCIAL DEPT.	Doc. & Impl.	IT DEPT.	Doc. & Impl.	INS- / CLAIM DEPT.	Doc. & Impl.	NOI APPLICABLE	DANKING MAX ACODE	
	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?																				) !	5
RR	7500.4	Are reports of work/rest hours reviewed on regular basis?																				) !	5
RR	7500.2	Is there a company policy to monitor and address non compliance on STCW 2010 Manila amendments of work/rest hours?																				) !	5
		B. Fatigue management																					
	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?																				3	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)																				2	25
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																			1	) 2	25
		C. Additional questions - reporting, training & awareness										•			•			•		•		•	
	7500.7	Does the company have a system in which crew members are able to report to a designated person on fatigue related issues without fearing any action against them for such communication?																				) !	5
	7500.11	Does the company conduct fatigue management training and awareness campaigns for shipboard crew on an initial and recurrent basis?																				) (	5
N	7500.12	Does the company consider during incident investigations, fatigue as one of the factors causing the incident?																					5
					B#:	. i ma	a war!	dan -		audr-		al sco		00 = 65								11	10

		CHECKLIST - RANKING CRITERIA - OFFICE A	רוסט	ī - L	.PG	CA	RRIE	ER -	VEF	RSIC	)N 2	025											
Revision Code	Norm item	RANKING Office - LPG	GENERAL MAN.	Doc. & Impl.	алапту DEРТ.	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.	т рерт.	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	
	9421.8	Is the company certified for the latest edition of ISO 50001 (energy management systems)?																			0	10	
	9421.9	Does the company perform audits at planned intervals to demonstrate the conformity to the requirements of the EnMS (Energy management system) in accordance with ISO 50001:2011?																			0	10	
	9421.10	Has the company established an energy baseline using the methodology from ISO 50001:2011 with the aim to reduce the energy consumption of the organisation?																			0	5	
					NAI-LI -							l score		- 0							0	95	4

	CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LPG CARRIER - VERSION 2025												
Norm item	TOTAL SCORE REVIEW OFFICE AUDIT - LPG CARRIER	OFFICE RANKING SCORE	MAXIMUM OBTAINABLE RANKING SCORE	MINIMUM RANKING SCORE REQUIRED	ELEMENTS WITH NO MINIMUM SCORE								
1000	GENERAL												
1200	Enclosed Space Entry & Hot Work	0	110	110									
1300	Compressor for the refilling of air cylinders for breathing apparatus or Alternative, Additional Green Award requirement	0	20	10									
1400	Control of drugs & alcohol onboard / Medical examination	0	55	30									
1500	Emergency Response System	0	45	25									
1510	Emergency Oil Recovery	0	10	0									
1600	Computer Systems, Networks, Data Security and Training. GA requirement	0	65	40									
1610	Cyber Risk Management	0	75	35									
1700	Noise and Vibration Management	0	65	25									
1710	Underwater Noise and Vibration Management	0	25	0									
1800	Social Dimension / Sustainability	0	85	15									
2000	NAVIGATION / BRIDGE OPERATIONS												
2100	Navigation	0	110	40									
2111	Electronic chart display & information systems / ECDIS	0	60	35									
2120	Environmental Requirements during the Voyage	0	55	40									
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												
4100	LPG Carrier Cargo Operations & Additional Green Award requirements	0	150	100									
4200	Ship to Ship Transfer Operations	0	40	40									
5000	PREVENTION OF POLLUTION												
5100	Biofouling Management	0	30	5									
5200	Waste Management / Garbage Handling Onboard	0	85	30									
5410	NOx Emissions	0	95	35									
5420	SOx Emissions	0	120	20									
5421	Ships required to carry out Fuel Change Over to low sulphur MARINE DIESEL OIL or low sulphur MARINE GAS OIL (low sulphur Distillates)	0	40	40									
5430	Particulate Matter (PM) Emissions	0	30	0									
5440	Greenhouse Gas (GHG) Emissions - CO2 Emissions	0	200	0									
5441	Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion	0	55	0									
5450	Newbuild policy	0	40	0									
5460	Environmental Ship Index (ESI)	0	50	0									
5500	Sewage Management	0	45	20	-								
5510	Grey Water Management	0	25	0									

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	CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LPG CARRIER - VERSION 202	5			
Norm item	TOTAL SCORE REVIEW OFFICE AUDIT - LPG CARRIER	OFFICE RANKING SCORE	MAXIMUM OBTAINABLE RANKING SCORE	MINIMUM RANKING SCORE REQUIRED	ELEMENTS WITH NO MINIMUM SCORE
5700	Ballast Water Management	0	60	20	
5801	Protection of fuel oil tanks, lube oil tanks and hull	0	30	0	
5810	Stern tube lubrication	0	60	0	
5811	Mooring wire lubrication	0	20	0	
5812	Deck equipment lubrication (use of oils)	0	55	0	
5820	Management of bilge water and sludge handling onboard	0	25	15	
5821	Outfitting of bilge water system	0	50	0	
5822	Outfitting of sludge handling system	0	20	10	
5900	Ship Recycling - Inventory of Hazardous Materials	0	120	40	
5910	Ship Recycling - Policy for ships due to be recycled	0	140	60	
6000	MAINTENANCE / SURVEYS				
6100	Programme of Inspections	0	70	60	
6110	Critical and Stand-by Equipment	0	75	30	
6200	Mooring Equipment	0	75	45	
6300	Corrosion Prevention of Seawater Ballast Tanks	0	75	40	
6400	Condition Assessment Program, Maintenance Additional Green Award requirements	0	120	60	
7000	CREW				
7100	Employment of Personnel	0	30	0	
7200	Extra Personnel, Additional Green Award Requirement	0	90	40	
7300	Training / Courses for Personnel Additional Green Award Requirements & IMO Model Courses	0	165	95	
7400	Familiarisation, Additional Green Award Requirement	0	80	50	
7500	Safe Manning and Fatigue Management	0	110	65	
9000	REQUIREMENTS ACCORDING TO ISO STANDARDS				
9421	ISO Certification	0	95	0	
	TOTAL SCORES	0	3580	1470	

#### 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".

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### **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.

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

#### **ENERGY CONSUMERS**

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

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

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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.

Υ?	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		
	<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**

Semi-mature

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

industry.

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

with very few installations and little to no operational experience.

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

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

View disclaimer

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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 - LPG CARRIER

(PMC-08)

		CHECKLIST - BASIC CRITERIA - SHIP SURVEY - LPG CAI	RRIE	ER -	- VE	RSI	ION	202	5									
Revision Code	Norm item	BASIC Ship - LPG	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.	אטן ארירויאפרר
	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	T	
	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?															$\perp$	
	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?															$\perp$	
	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?																
	106.4	Are shipboard personnel informed about new/revised rules, regulations, codes and guidelines?															$\perp$	
	106.6	Does ship's personnel receive training/courses which are required in support of the MS?															$\perp$	
	106.11	Is the working language between the office and the vessels defined?															$\perp$	
	106.12	Are all senior and deck officers conversant in the English language for maritime communication?															$\perp$	
	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 ship's staff?															$\perp$	
	106.15	Are new personnel and personnel transferred to new assignments, given proper familiarisation with their duties?															$\perp$	
	106.16	Are instructions, which are essential prior to sailing, identified, documented and given to the new personnel?																
	106.17	Is the Master fully conversant with the Company's Management Systems?																

		CHECKLIST - BASIC CRITERIA - SHIP SURVEY - LPG CAI	RRII	ER -	· VE	RSI	ON	202	5								
Revision Code	Norm item	BASIC Ship - LPG	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	
	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?															
	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?															Ш
	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 ?															

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		CHECKLIST - BASIC CRITERIA - SHIP SURVEY - LPG CA	RRII	ER ·	- VE	RS	ION	202	5								
Revision Code	Norm item	BASIC Ship - LPG	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
	112	COMPANY VERIFICATION, REVIEW AND EVALUATION	0		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	0								0						
	201.1	Compliance with General Provisions															
	201.2	Compliance with IGC Code															
	213	Certificates and documents on board	0								0						
	213.1	Are all regulatory certificates valid ?															
	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)?															

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	ı	CHECKLIST - BASIC CRITERIA - SHIP SURVEY - LPG CAI	KKIE	:K -	۷E	KSI	ON	202	5	1		1 1				1	
Revision Code	Norm item	BASIC Ship - LPG	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
	217	Safety of Navigation / SOLAS chart carriage requirements	0				0										
		Alternative 1: Compulsory carriage of ECDIS, with full official ENC coverage															
	217.1	Is the ECDIS type-approved according to Res A 817(19) as amended by MSC 64 (67) and MSC 86 (70) or MSC.232(82)?															
	217.3	Is an acceptable back-up arrangement in place? ( an independent type-approved ECDIS with an independent position fixing system using official Electronic Navigational Charts (ENC's), or a full / reduced folio of up-to-date paper charts as relevant to the ship's voyage )															
	217.4	Are all official ENCs up-to-date?															
		<u>Alternative 2:</u> 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 - LPG CA	RRII	ER -	· VE	RSI	ON	202	5								
Revision Code	Norm item	BASIC Ship - LPG	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL Doc. & Impl.	NOT APPLICABLE
	300	MARPOL 73/78															
	301	Provisions concerning Reports on Incidents Involving Harmful Substances (Protocol 1)	0		0												
	301.1	Does the Master have a procedure in order to report an incident to the nearest coastal state?													]		Ш
	310	Prevention of pollution by oil	0		0		0		0	0		0		0		0	
	310.2	Is SMPEP/SOPEP (as applicable) maintained and updated for oil pollution emergency procedures?															$\perp$
	310.5	Are updated contact lists of coastal States, port contacts and ship interest contacts available?															$\perp$
	310.6	Does the company have a policy concerning the retention and disposal of oil residues (sludge)?															$\bot$
	310.8	Are actions and responsibilities of the shipboard personnel clearly described in oil pollution emergency procedures of the SMPEP/SOPEP (as applicable)?															
	310.9	Does the plan provide procedures for the removal of oil spilled and contained on deck?															
	310.10	Does the plan provide guidance to ensure proper disposal of removed oil and clean-up materials?															Ш
	320	Prevention of pollution by cargo															
	320.2	Is the shipboard marine pollution emergency plan maintained and updated?															
	320.8	Are actions and responsibilities of the shipboard personnel clearly described in the SMPEP?								_							$\bot \bot$
	320.9	Does the plan provide procedures for the removal of product spilled and contained on deck?								-							$\bot$
	320.10	Does the plan provide guidance to ensure proper disposal of removed product and clean-up materials?															
	320.11	Does the plan include a list of information required for making damage stability and damage longitudinal strength assessments?															
	350	Prevention of pollution by garbage	0		0		0		0	0		0		0		0	
	350.2	Does the vessel have a ship specific garbage management plan detailing the specific ship's equipment, arrangements and procedures for the handling of garbage?															
	350.3	Are records kept according to the garbage management plan?															$\prod$

# **APPENDIX 4**

CHECKLIST - RANKING CRITERIA - SURVEY - LPG CARRIER

(PMC-09)

		·																
		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG C	ARF	RIEF	۲ - V	ERS	1012	N 20	25									
Revision Code	Norm item	RANKING Ship - LPG	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	Deck Kaling Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER  Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	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 oxygen, flammable gases or vapours (% of LFL), carbon monoxide and hydrogen sulphide?															0	10
	1200.9	Is a safety meeting, attended by all personnel involved, held prior to entering the space or commencement of hot work in order to review procedures and PPE (including those specific for the intended work)?															0	10
	1200.10	Is a responsible officer designated for all aspects of the operation?															0	5
	1200.3	Is ship's crew trained and drilled periodically according to enclosed space entry procedures?															0	5
	1200.4	Does training also include rescue and first aid?															0	5
	1200.11	Is a rescue / back-up team assigned and ready for immediate action upon call?															0	5
	1200.16	Is a ship specific list which identifies onboard enclosed spaces available onboard?															0	5
	1200.17	Is the crew aware of PPE appropriate for low temperatures and liquefied gases cargoes?								<u> </u>							0	5
			$\vdash$		Minin	num	rankir	ng sc		otal sco		ement 1	200 =	80			0	80
	1300	Compressor for the refilling of air cylinders for breathing apparatus or Alternative, Additional Green Award requirement								0								
	1300.1	Does the vessel have a compressor for the refilling of air cylinders for breathing apparatus?															0	20
	1300.2	Alternative for 1300.1: sufficient number of air cylinders for the sole purpose of safety drills.															0	10
					Mini		namk!:			tal sco			200 =	40			0	20
					wiinin	num	rankir	ng sc	ore rec	juired f	or ele	ement 1	300 <b>=</b>	10				

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG C	ARF	RIFF	۲ - ۱	/FR	SIO	N 20	)25										
		CHESKEIGT - KARKING SKITERIA - GIIII GORVET - EI G G	T	<u> </u>	\ - \		0.0	1		Т		П	П		<u> </u>		Т	Г	
Revision Code	Norm item	RANKING Ship - LPG	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
	1400	Control of drugs & alcohol onboard / Medical examination	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	<u>Alternative to 1400.1 &amp; 1400.5:</u> 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?	l															0	25
	1400.4	Have all crew members been tested for effects of carried cargoes during a medical examination?																0	10
										otal sc								0	45
								ing so	ore rec	_	for e		nt 140	00 = 3	0				
	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
			-		Min	mum	rank	ina sa	ore rec	otal sc		lomo	nt 15	00 - 4	5			0	30
	1510	Emergency Oil Recovery			IVIIII	muill	I all K	iiy st	016 160	<sub>f</sub> an eu	.01 6		150	00 - 1					
	1510.1	Is the vessel equipped with a system providing emergency access to cargo tanks and bunker tanks (for example, from the vessel deck), should the vessel be submerged?	Г															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
			,,,,,,,,,,							otal sc								0	10
					Min	imum	ranki	ing so	ore rec	quired	for e	leme	nt 15	10 = 0					

		<u> </u>																	
		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG C	ARI	RIEF	R - \	/ER	SIO	N 20	025										
Revision Code	Norm item	RANKING Ship - LPG	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
	1600	Computer Systems, Networks, Data Security and Training. GA requirement	0							0									
	1600.1	Are arrangements for vessel systems documented ? (configuration scheme)																0	10
	1600.7	Are adequate system back-up's for vessel computer-based systems made (where applicable) and are procedures for this documented ?																0	5
	1600.8	Are adequate back-ups for administrative PC systems made and are procedures for this documented ?																0	5
	1600.3	Is training provided at a level required to effectively operate and maintain the system and cover normal, abnormal and emergency conditions?																0	10
	1600.4	Is the internal audit scheme applicable to the IT elements and vessel computer-based systems?																0	10
	1600.5	Are computer systems, in relation to IMO MSC/Circ.891, certified by a recognised organisation?																0	10
	1600.6	Is a system administrator designated onboard for administrative PC systems on the ship?																0	10
			┢		Mini	imum	ranki	na sa	ore rec	otal so		lomo	nt 16	00 = 3	en.			0	60
	1610	Cyber Risk Management						ing oc	010100	Junea	10.0								
	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 threat to the ship's information and operational technology systems?	3															0	5
	1610.8	Does the vessel undergo cyber risk assessment (at an interval deemed suitable by the company) by means of eithe 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?	r															0	5
	1610.9	Does the vessel have access to contingency plans and related information in a non-electronic form that need to be followed in the event of a cyber attack?																0	5
	1610.12	Are on-board systems forbidden to be remotely accessed by technicians and manufacturers without authorization by the vessel's senior leadership team (For example, by following a two-step digital authorization process)?																0	5
					Inc.					otal so		1		10 - 1	-			0	35
					Min	ımum	ranki	ng so	core rec	uired	ror e	ieme	ent 16	10 = 1	15				

		Only name.																Jilip Oc	
	CHECKLI	ST - RANKING CRITERIA - SHIP SURVEY - LPG	CAR	RIEF	₹ - \	/ER	SIO	N 20	25										
Norm item	GREEN AWARD	RANKING Ship - LPG	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
1700	Noise and Vibration Management																		
	Noise/Vibration Monitoring and Measures																		
1700.2																	na	0	0
	Does the PMS have the routine to inspect and rec machinery equipment?	ify any abnormalities in terms of noise and vibration from a																0	5
1700.4			е															0	10
	Noise Mitigation and Health Hazards																		
1700.8	Is the noise exposure limit of each rating/officer re	corded 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 sp	ecific suitable silencers to attenuate noise?																0	5
1700.11	Is the ship installed with noise cancelling equipme dampers where practically possible?	nt such as active mufflers/mounts, resilient mounts, vibration																0	10
1700.12	Are noise cancelling measures such as mineral we reduce the noise level?	pol/silencers being installed in the ventilation ducts or fan rooms	to															0	10
					1													0	50
4=40					Mini	imum	ranki	ing sc	ore rec	uired	tor e	leme	nt 170	00 = 1	5				
															4				
1710.1	Were any measures implemented periodically to re	educe cavitation from propeller?								<u> </u>								•	5
					Mini	imum	ranki	ing sc				leme	nt 171	10 = 0	)			0	5
	Norm	1700. Noise and Vibration Management  Noise/Vibration Monitoring and Measures  1700.2 Is the crew wearing hearing protectors which meet 4869-2:1994) when entering spaces where noise le 1700.3 Does the PMS have the routine to inspect and rect machinery equipment?  1700.4 Are appropriated measures implemented onboard if the noise exceeds 85db(a) (by taking into accour Noise Mitigation and Health Hazards  1700.8 Is the noise exposure limit of each rating/officer rect 1700.9 Is the crew restricted towards prolonged exposure 1700.10 Are all engine exhaust pipes insulated with ship sp 1700.11 Is the ship installed with noise cancelling equipment dampers where practically possible?  1700.12 Are noise cancelling measures such as mineral woreduce the noise level?	RANKING Ship - LPG  Noise and Vibration Management Noise/Vibration Monitoring and Measures  Iron.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)?  Does the PMS have the routine to inspect and rectify any abnormalities in terms of noise and vibration from a machinery equipment?  Are appropriated measures implemented onboard in order to protect the crew from cargo handling equipment nois if the noise exceeds 85db(a) (by taking into account technical solutions and/or exposure limits)?  Noise Mitigation and Health Hazards  Is the noise exposure limit of each rating/officer recorded and available onboard?  Iron.10  Are all engine exhaust pipes insulated with ship specific suitable silencers to attenuate noise?  Is the ship installed with noise cancelling equipment such as active mufflers/mounts, resilient mounts, vibration dampers where practically possible?  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Irrou.10 Is the crew restricted towards prolonged exposure in spaces where noise limits exceed 110 db(a)?  1700.11 Is the ship installed with noise cancelling equipment such as active mufflers/mounts, resilient mounts, vibration dampers where practically possible?  Are noise cancelling measures such as mineral wool/silencers being installed in the ventilation ducts or fan rooms to reduce the noise level?	RANKING Ship - LPG  Noise and Vibration Management  Noise/Vibration Monitoring and Measures 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)?  1700.3 Does the PMS have the routine to inspect and rectify any abnormalities in terms of noise and vibration from a machinery equipment?  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Minimum  Underwater Noise and Vibration Management  Were any measures implemented periodically to reduce cavitation from propeller?	RANKING Ship - LPG  Noise and Vibration Management  Noise/Vibration Monitoring and Measures  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)?  1700.3 Does the PMS have the routine to inspect and rectify any abnormalities in terms of noise and vibration from a machinery equipment?  Are appropriated measures implemented onboard in order to protect the crew from cargo handling equipment noise if the noise exceeds 85db(a) (by taking into account technical solutions and/or exposure limits)?  Noise Mitigation and Health Hazards  1700.9 Is the crew restricted towards prolonged exposure in spaces where noise limits exceed 110 db(a)?  1700.10 Are all engine exhaust pipes insulated with ship specific suitable silencers to attenuate noise?  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RANKING Ship - LPG  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)?  1700.3 Does the PMS have the routine to inspect and rectify any abnormalities in terms of noise and vibration from a machinery equipment?  1700.4 Are appropriated measures implemented onboard in order to protect the crew from cargo handling equipment noise if the noise exceeds 85db(a) (by taking into account technical solutions and/or exposure limits)?  Noise Mitigation and Health Hazards  1700.9 Is the crew restricted towards prolonged exposure in spaces where noise limits exceed 110 db(a)?  1700.10 Are all engine exhaust pipes insulated with ship specific suitable silencers to attenuate noise?  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Ninimum ranking sc  Ninimum ranking sc  Ninimum ranking sc  Ninimum ranking sc	Ship - LPG    Ship - LPG	RANKING Ship - LPG  Noise and Vibration Management  Noise/Vibration Monitoring and Measures  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)?  1700.3 Does the PMS have the routine to inspect and rectify any abnormalities in terms of noise and vibration from a machinery equipment?  1700.4 Are appropriated measures implemented onboard in order to protect the crew from cargo handling equipment noise if the noise exceeds 85db(a) (by taking into account technical solutions and/or exposure limits)?  Noise Mitigation and Health Hazards  Is the crew restricted towards prolonged exposure in spaces where noise limits exceed 110 db(a)?  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Noise Mitigation and Health Hazards  Is the noise exceeds 85db(a) (by taking into account technical solutions and/or exposure limits)?  Noise Mitigation and Health Hazards  Is the noise exceeds Sabb(a) (by taking into account technical solutions and/or exposure limits)?  Noise Mitigation and Health Hazards  Is the noise exposure limit of each rating/officer recorded and available enhosard?  Is the ship installed with noise cancelling equipment such as active mufflers/mounts, resilient mounts, vibration dampers where practically possible?  If noise a maximal possible (and the properties) and the ventilation ducts or fan rooms to reduce the noise level?    Total score   T	RANKING Ship - LPG  Noise and Vibration Management  Noise/Vibration Monitoring and Measures  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)?  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Noise Mitigation and Health Hazards  Is the crew restricted towards prolonged exposure in spaces where noise lenders in the ventilation ducts or fan rooms to reduce the noise level?  **Minimum ranking score required for element 1700 = 15   Total score   Total sco	RANKING Ship - LPG  Noise and Vibration Management  Noise/Vibration Monitoring and Measures  1700.2 Age Sept-21994) when entering spaces where noise levels exceed 85db(a)?  1700.3 Does the PMS have the routine to inspect and rectify any abnormalities in terms of noise and vibration from a machinery equipment?  Noise Mitigation and Health Hazards  1700.4 Are all engine exhaust pipes insulated with noise cancelling equipment such as active mufflers/mounts, resilient mounts, vibration dampers where practically possible?  Are noise exposure limit of each rating/officer recorded and available silencers to attenuate noise?  1700.1 Is the crew restricted towards prionged exposure im spaces where noise limits exceed 110 db(a)?  1700.10 Are all engine exhaust pipes insulated with hoise cancelling equipment such as active mufflers/mounts, resilient mounts, vibration dampers where practically possible?  Are noise exposure limit of each rating/officer recorded and available silencers to attenuate noise?  1700.1 Site the row restricted towards prionged exposure im spaces where noise limits exceed 110 db(a)?  1700.10 Are all engine exhaust pipes insulated with hoise cancelling equipment such as active mufflers/mounts, resilient mounts, vibration dampers where practically possible?  Are noise exposure limit of each rating/officer recorded and available silencers to attenuate noise?  1700.1 Site ship installed with noise cancelling equipment such as active mufflers/mounts, resilient mounts, vibration dampers where practically possible?  Are noise cancelling measures such as mineral wool/silencers being installed in the ventilation ducts or fan rooms to reduce the noise level?  1700.1 Underwater Noise and Vibration Management  1700.1 Were any measures implemented periodically to reduce cavitation from propeller?	RANKING Ship - LPG  Noise and Vibration Management  Noise/Vibration Monitoring and Measures  1700.2 Age Sez-21994) when entering spaces where noise levels exceed 85db(a)?  Noise the PMS have the routine to inspect and rectify any abnormalities in terms of noise and vibration from a machinery equipment?  Noise Mitigation and Health Hazards  18 the crew response lemind soacous where noise levels exceed 85db(a)?  Noise Mitigation and Health Hazards  18 the noise exposure limit of each rating/officer recorded and available onboard?  Is the noise exposure limit of each rating/officer recorded and available onboard?  Is the crew restricted towards prolonged exposure in spaces where noise limits exceed 110 db(a)?  Noise Mitigation and Health Hazards  Is the crew restricted towards prolonged exposure in spaces where noise limits exceed 110 db(a)?  Are all engine exhaust pipes insulated with ship specific suitable silencers to attenuate noise?  Are noise exposure limit of each rating/officer recorded and available in the wentilation ducts or fan rooms to almost cancelling equipment such as active mufflers/mounts, resilient mounts, vibration dampers where practically possible?  Are noise exposure limit of each rating/officer recorded and available silencers to attenuate noise?  Are noise cancelling measures sunkled with ship specific suitable silencers to attenuate noise?  Are noise cancelling measures sunkled with ship specific suitable silencers to attenuate noise.  **Minimum ratics score required for element 1700 = 15  **Intolation of the provided pr	RANKING Ship - LPG  Noise and Vibration Management  Noise/Vibration Monitoring and Measures  1700.2 Is the crew wearing hearing protectors which meet he requirements of the HML(High-Medium-Low) method (ISO) 2 Is the crew wearing hearing protectors which meet the requirements of the HML(High-Medium-Low) method (ISO) 3 Is the crew wearing hearing protectors which meet the requirements of the HML(High-Medium-Low) method (ISO) 4 Is the crew wearing hearing protectors which meet the requirements of the HML(High-Medium-Low) method (ISO) 4 Is the crew wearing hearing protectors which meet the requirements of the HML(High-Medium-Low) method (ISO) 4 Is the crew wearing hearing spaces where noise levels exceed 85db(a)?  Noise Mitigation and Health Hazards  1700.4 Is the noise exceeds 85db(b) (by taking into account technical solutions and/or exposure limits)?  Noise Mitigation and Health Hazards  1700.5 Is the crew restricted towards prolonged exposure in spaces where noise limits exceed 110 db(a)?  1700.6 Is the crew restricted towards prolonged exposure in spaces where noise limits exceed 110 db(a)?  1700.1 Is the ship installed with noise cancelling equipment such as active mufflers/mounts, resilient mounts, vibration dampers where practically possible?  1700.1 Is the ship installed with noise cancelling equipment such as active mufflers/mounts, resilient mounts, vibration dampers where practically possible?  1700.1 Is the ship installed with noise cancelling equipment such as active mufflers/mounts, resilient mounts, vibration dampers where practically possible?  1700.1 Is the ship installed with noise cancelling equipment such as active mufflers/mounts, resilient mounts, vibration dampers where practically possible?  1700.1 Is the ship installed with noise cancelling equipment such as active mufflers/mounts, resilient mounts, vibration dampers where practically possible?  1700.1 Is the ship installed with noise cancelling equipment to each standard with ship specific suitable silencers being installed in the ventila

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		CHECKLIST - RAN	KING CRITERIA - SHIP S	URVEY - LPG CA	٩RR	RIER	? - V	'ER	SION	202	:5										
Revision Code	Norm item	GREEN AWARD	RANKING Ship - LPG		MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	DECK RATING	Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Coct of miles.	CA LEKING 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 acces company for seeking medical advice?	s digital platform (web or app) su	bscribed by the																0	5
	1800.4	Has the shipboard staff been familiarized with platforms (online networks to tackle mental health issues?	e/offline) providing access to emo	tional support																0	5
	1800.5	Do all shipboard personnel have access to the internet at all ti	mes?																	0	5
		B. Reduced Inequalities / Equal Opportunities / Diversity								-											
		B.1 General					_	_		_			_								
	1800.7	Have all ship board personnel been made aware of confidentia discrimination?	al reporting procedures to report	narassment &																0	5
	1800.8	Have steps been taken to create awareness among shipboard policies focusing on subjects such as equal opportunities, equ harassment, etc.?																		0	5
		B.2 Gender-specific																			
	1800.10	Does the vessel have women seafarer(s) working either as off	icers or ratings?																	0	10
	1800.11	Is the ship equipped with the following specific facilities for wo – feminine hygiene items (in bonded stores) & separate dispos – separate washrooms with sanitary facilities – suitable sized (gender specific) safety and protective clothing – access to medical supplies without having to consult male of	sal facilities																	0	5
							Bate 1					tal sc				00 - 40				0	50
							Mini	mum	rankin	g scor	e requ	uired	tor el	emen	1t 18	00 = 10					

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG C	ARF	RIEF	۲ - ۱	/ER	SION	202	5									
Revision Code	Norm item	RANKING Ship - LPG	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.	RANKING SCORE	RANKING MAX. SCORE
	2000	NAVIGATION / BRIDGE OPERATIONS																
	2100	Navigation	0		0		0											
	2100.3	Does the voyage or passage plan include contingency planning?															0	10
	2100.6	Is the vessel automatically supplied with new hydrographic publications?															0	10
	2100.7	Is the vessel electronically updated for hydrographic publications? (eg. Temporary and Preliminary NtM)															0	10
	2100.8	Is navigational equipment included in the electronic Planned Maintenance System?															0	10
	2100.9	Are masters entitled to use non-compulsory pilot services? (must be stated in a company procedure)															0	20
	2100.13	Is the vessel using weather routing services while on long haul voyage?															0	10
	2100.18	Is the vessel enrolled in a meteorological & oceanographic service in a form of a software application?															0	10
	2100.19	<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
			-		Mini	mum	ronkin			tal sco		lomo	nt 21	00 = 40			0	120
	2111	Electronic chart display & information systems / ECDIS			IVIIIII	IIIUIII	I all Kill	SCOR	erequ	uireu i	ioi e	lemen	111(21	00 - 40				
	2111	Applicable to ships for which carriage of ECDIS is compulsory																
	2111.4	Is ECDIS hardware maintained and software updated?			T			T							1		0	5
	2111.5	Is ECDIS tested according to the IHO ECDIS data presentation and performance check with a use of test data set after every update of the software (including back up)?															0	5
	2111.6	Is the crew regardless of the generic training familiarized with the ECDIS unit(s) installed onboard according to the Industry Recommendations for ECDIS Familiarisation?															0	15
	2111.7	Have all the officers completed structured ECDIS training(s) on top of the generic training (besides the familiarization onboard in R2111.6)?															0	5
	2111.10	Does the voyage planning include checking if all needed charts are up-to-date (latest edition official chart updated an corrected to the latest available updates and NtM)?															0	5
	2111.11	Does the ECDIS procedure suggest display settings (layers) of ECDIS for various navigation conditions (arrival / departure - coastal - deep sea)?															0	10
	2111.12	Does the vessel have a basic folio of paper charts (in case second ECDIS is a back up system)?															0	10
					Mini	mum	rankin	1 000-		tal sco		lome	nt 24	11 = 30			0	55
					IVIIIIII	munn	ı alıkıll	JSCOR	e redt	uired T	ioi e	iemer	nt Z'I	11 - 30				

Doc. & Impl.  CHIEF ENGINEER  Doc. & Impl.	ENGINEER OFFICER Doc. & Impl.	ENGINEER RATING	CATERING PERSONNEL	Ooc. & Impl.  VOT APPLICABLE	G SCORE	MAX. SCORE
		S <b>E</b> S	CATI	Doc. & Impl.	RANKING	RANKING
					0	5
					0	5
					0	10
					0	15
					0	10
					0	10
		2120 - 40	\		0	45
equired for	element.	2120 - 40				
					0	10
					0	10
		- 1			0	20
equired for	r element :	2200 = 20	)			
						10
						10
						20
T-4-1					0	10
		2300 = 30	)		0	50
r	Total score	Total score required for element	Total score  Total score  Total score  Total score  Total score	Total score required for element 2200 = 20	Total score  Total score  Total score	Total score

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG C	ARI	RIEI	R - \	/ER	SIO	N 20	25										
Revision Code	Norm item	RANKING Ship - LPG	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	Doc. & Impl.	CHIEF ENGINEER	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	CATERING PERSONNEL	Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	3000	MACHINERY / ENGINE OPERATIONS																	
	3100	Bunker Operations					0			0		0		0					
М	3100.1	Does the company MS specify a safe-maximum percentage fill for bunker tanks? (max. limit 90%)																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
					India.		un mile		To ore red	tal sc		lama.	-4 240	20 - 50				0	50
	3101	Bunker Operations - LNG			IVIII	mum	гапк	ing sc	ore req	uirea	ior e	iemei	111 370	JU = 5U					
	3101.1	Is the ship mandated to use only a relevant IAPH LNG bunkering checklist - either by company SMS or by instructions from charterer / port authority?																0	10
	3101.2	Do shipboard personnel make use of LNG specific PPEs such as protective cryogenic gloves and safety goggles with side protection during LNG bunkering operations?																0	10
	3101.3	Are ship's LNG bunker stations equipped with CCTV for the purpose of observing the bunkering operation from the bridge or operation control room?																0	10
	3101.4	Does a designated shipboard personnel 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 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
					India.		un mile		To ore red	tal sc		lama.	-4 240	24 - 25				0	50
					IVIIN	iirium	rank	nig sc	ore req	uired	ior 6	iemei	nt oll	J I = 25	1				

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		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG (	AR	RIEI	R - \	VER	RSIC	ON 2	2025	<b>b</b>										
Revision Code	Norm item	RANKING Ship - LPG	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
	3200	Fuel oil management																		
		B.Sampling & Testing																		
		B.1 MARPOL delivered fuel oil sampling																		
	3200.11	ls 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			_		_							_					_	
	3200.16	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	9																0	10
		B.3 Testing							•	•				•		•		•		
	3200.1	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																		
	3200.17	Is the commingling of two different bunkers (even of the same grade of fuel) prohibited?																	0	10
	3200.18	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																		
	3200.19	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
											al sco								0	80
					Min	imum	ı rank	king s	score	requi	ired fo	or ele	emen	t 320	00 = 40	)				

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG CA	٩RR	IEF	R - V	/ER	SIOI	N 20	025										
Revision Code	Norm item	RANKING Ship - LPG	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
	4000	CARGOES / CARGO OPERATIONS																	
	4100	LPG Carrier Cargo Operations & Additional Green Award requirements	0		0														
	4100.1	Is it company procedure that the ship shore safety checklist has to be used before loading/unloading operations?																0	10
	4100.4	Does the company give procedures/instructions in relation to the entire cargo operations?																0	10
	4100.6	Does the company distribute relevant cargo instructions to the vessel? (e.g. is ship compatible for intended cargo?)																0	10
	4100.7	Are there procedures to ensure that a sufficient number of personnel is available in case of emergency during port stay?																0	20
	4100.10	Is there an effective deck watch in attendance on deck during cargo operations?																0	10
	4100.11	Is a plan for the intended cargo operations available?																0	10
	4100.12	Is a terminal emergency plan available on board? (CCR)																0	10
	4100.14	Are all ESD points tested on regular basis?																0	10
	4100.27	Is a pre-arrival checklist completed at least within 24 hours and sent to the office at least 12 hrs prior to arrival?																0	10
	4100.28	Does the vessel send a pre-loading / discharging (cargo) plan to the office?																0	10
	4100.29	Is an instruction (matrix) for tanks preparation for the next cargo posted in CCR?																0	10
	4100.30	Is a step-by-step procedure for the process of draining the loading lines and hoses before loading arms get disconnected available onboard?																0	10
	4100.31	Is a procedure of carrying incompatible cargoes posted in CCR? N/A for ships that are certified to carry one grade of cargo at a time?																0	10
	4100.32	Is a procedure for minimizing the vapor loss available onboard?																0	10
	4100.33	Is a leak test of the cargo arm/hose connection to the manifold conducted prior to commencing the cargo transfer?																0	10
										otal s								0	160
	4200	Ship to Ship Transfer Operations	0		Milni	mum	rankii	ng so	core re	quired	_	o	ent 41	00 = 9	9U				
	4200.1	Is a STS safety drill carried out not more than seven days preceding a STS transfer operation?	•							+		Ť						0	10
	4200.1	Alternative for 4200.1: (for vessels not engaged in regular STS operations) In case the ship is ordered to lighter, are there procedures / guidelines in the SMS to familiarise relevant crew members with the STS safety drill & is there an instruction to carry out the drill not more than 7 days before commencing operations?																0	10
		Also forwards and an analysis of the OTO and of the six and the six and and the Section A. II. 1. 1. 1. 1.				-		-							-				
	4200.2	Also for vessels not engaged in regular STS operations in case the ship is ordered to lighter: Are the checklists as described in the Ship to Ship Transfer Guide available for use?																0	10
	4200.3	Also for vessels not engaged in regular STS operations in case the ship is ordered to lighter: Are company guidelines available to develop (or assess) a STS contingency plan, including all possible risks and actions to be taken to avoid emergencies? (Plan should take the geographical location of the operation, local requirements & support in local area into account. Plan must be agreed between both vessels and local organisers)																0	10
					Mini	mum	ranki	20.00	ore re	otal s		lomo	nt 42	00 - 2	20			0	30
	1				Intitit	mum	ranKl	ny st	rois te	quirec	u ior e	stettie	m 42	.uu = 3	,0				

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		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG C	ARF	RIEF	₹ - \	/ER	SIO	N 20	)25										
Revision Code	Norm item	RANKING Ship - LPG	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.		RANKING MAX. SCORE
	4400	Additional Green Award Requirements (tank alarms, coatings, etc.)			0														
	4400.1	Is the measuring system for cargo, bunker and ballast tanks on line with the loadicator?																0	20
	4400.2	Are all cargo tanks fitted with high and high-high level alarms?																0	10
	4400.3	Is each cargo tank fitted with an independent overfill alarm?																0	10
	4400.12	Is a procedure available for describing the process of delivering coolant ashore prior to the vessel going to dry-dock?	,															0	10
	4400.13	Is atmosphere of void spaces continuously monitored for gases with alarm in the cargo control room and on the																0	40
	4400.14	Has the inert-gas installation enough capacity to inert the void spaces as well?																0	30
	4400.20	Are venting mast risers for cargo tank venting systems provided with a fixed system for extinguishing a fire at the vent outlet? (Nitrogen or any other suitable medium)																0	10
	4400.21	Are air condition system intakes equipped with toxic gases detectors?																0	10
	4400.22	Is there a system in place for an efficient handling of non-condensable gases during reliquefaction process which prevents venting non-condensable gases with a high amount of hydrocarbons to the atmosphere?																0	10
	4400.23	Is the primary barrier of the tanks fully insulated?																0	10
	4400.24	Are cargo domes insulated?																0	10
					I					Total								0	170
	4500	H. H. O. C. C. M. L. M. C.			_	ımum	ı rank	ing so	ore re	equire	d for	eleme	ent 44	00 = 1	100				
	4500	Hull Stress Monitoring System	0		0														
	4500.1	Does the vessel have a hull stress monitoring system which provide real-time information with readouts both in the CCR and on the bridge?																0	20
			<i>,,,,,,,,,,</i>		Balloni		le			Totals		eleme	4F	00 - 0	_			0	20
					IVIINI	imum	і гапк	ing so	ore re	equire	u ior	eieme	ent 45	ιυυ = t	,				

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		C	CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPC	CAR	RIE	۲ - ۱	/ER	SION	202	5									
Revision Code	Norm item	GREEN AWARD	RANKING Ship - LPG	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.	RANKING SCORE	RANKING MAX. SCORE
	5000	PREVENTION OF POLLUTION																	
	5100	Biofouling Management																	
	5100.5	Are there ship-specific procedures/instr ship's biofouling to minimize the transfe	ructions (according to IMO guidelines) for the control and management of er of invasive aquatic species?															0	10
	5100.6	Does the ship undergo in-water inspect consultation with coatings manufacture	tions and proactive hull cleanings as per the frequency and timing defined or and/or coatings consultant?	in														0	5
	5100.7		te data points that are pre-defined as indicators for reactive hull cleaning oring or other relevant datasets such as increased drag or increased fricti															0	5
	5100.9	Is the vessel's hull coated with non-toxi	ic hard coating to mitigate bio-fouling?															0	10
											l score							0	30
						Mini	imum	ranking	score	requi	red for	elem	ent 51	100 =	5				

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG CA	ARR	IEF	<del>۱ - ۲</del>	/ER	SIOI	N 202	25										
Revision Code	Norm item	RANKING Ship - LPG	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	RANKING SCORE	RANKING MAX. SCORE
	5200	Waste Management / Garbage Handling Onboard	_		0					0			Ü		0				
		A. General procedures																	
	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), glass, bottles, crockery & similar refuse, 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.3 Ashes and clinkers																	
	5200.25	Are all incinerated ashes and clinkers always delivered to the port reception facilities?																0	10
		B.4 Cleaning agents & additives																	
	5200.28	Are <u>non harmful</u> (MARPOL Annex V compliant) cleaning agents and additives used for cleaning the deck / external surfaces?																0	10
		B.5 Plastics																	
	5200.20	Are the crew aware that plastic should not be incinerated?																0	10
	5200.39	Are plastic cutlery, dishes & straws banned on board?																0	5
	5200.40	Are beverages and mineral water bottles in bonded store replaced by better sustainable alternatives such as beverages in tin cans and large water barrels in a dispenser?																0	5
	5200.41	Are single food servings in small plastic pots not used on board (for example, small yoghurt pots are replaced with decanted supplies in large containers)?																0	5
	5200.42	Is fine filtering mesh installed to the ship's washing machine's outlets to prevent micro-plastic fibres reaching the ocean?																0	5
	5200.43	Is the crew <u>aware</u> that old ropes and mooring lines are forbidden to be dumped at sea and must be retained on board until landed ashore for correct disposal?																0	5
N	5200.44	Is an extra filtration equipment on the main supply line – such as a reverse osmosis (RO) installation – available on different decks in public areas, such as the galley or pantries? (In order to eliminate/reduce bottled water and supply safe drinking water onboard.) (The system is to be in addition to the standard arrangement of the vessel's Drinking Water (DW) filtration system, such as a rehardening filter and UV sterilizer.)																0	5
		C. Additional questions			1			- 1		1									
	5200.16	Has the crew completed training / education programme in relation to garbage management?															$\sqcup \downarrow$	0	5
					Mini	mum	rankii	na sco		tal sc		lemen	nt 52	00 = 50				0	125

		CHE	CKLIST - RANKING CRITERIA - SHIP SURVE	Y - LPG CA	RRI	ER	- VE	RSI	ON 2	2025										
Revision Code	Norm item	GREEN AWARD	RANKING Ship - LPG		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	RANKING SCORE	RANKING MAX. SCORE
	5410	NOx Emissions										0								
		A. Emission Monitoring									_									
	5410.10	Does the ship use a continuous emission nemissions?	nonitoring system (in-situ or extractive) for monitoring and re	ecording NOx															0	10
		B. Emission Reduction																		
		For ships keel laid between 01-01-2000 a	nd 31-12-2010 (Tier I mandatory ships)																	
	5410.11	Does the ship reach the NOx tier 2 limits or	the main engines?																0	10
	5410.12	Does the ship reach the NOx tier 2 limits or	the auxiliary engines?																0	10
		For ships keel laid on / after 01-01-2011	5410.13 - 5410.18)																	
	5410.13	Does the ship reach NOx emissions 15% b	elow the tier 2 limits on their main engine?																0	5
	5410.15	ALTERNATIVE 1 to 5410.13  Does the ship reach NOx emissions 30% b	elow the tier 2 limits on their <u>main engine</u> ?																0	10
	5410.17	ALTERNATIVE 2 to 5410.13  Does the ship reach NOx emissions 50% b	elow the tier 2 limits on their <u>main engine</u> ?																0	15
	5410.14	•	elow 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% b	elow the tier 2 limits on their <u>auxiliary engine</u> ?																0	10
	5410.18	ALTERNATIVE 2 to 5410.14  Does the ship reach NOx emissions 50% b	elow the tier 2 limits on their <u>auxiliary engine</u> ?																0	15
		For ALL ships (5410.19)																		
	5410.19	Do all the ship's engines (main and auxiliar zones (24 nm from the nearest land)?	y) ALWAYS operate at NOx Tier 3 levels in all ports and co	ontiguous															0	30
		C. Additional Questions																		
		Exhaust Gas Recirculation (EGR)																		
	5410.22	off discharge water to the company?	esults from the continuous monitoring of exhaust gas recirc are applicable to EGR bleed-off discharge water as well.	ulation bleed-															0	10
	5410.23	and communicated communication made to 1. Heavy metals 2. Wash water additives.	the EGR unit as bleed-off water collected for sampling period the company for the below parameters?  tory monitoring of pH, PAH, turbidity values set by IMO.	odically															0	15
	5410.24	Is appropriate PPE being used by the crew EGR?	during the handling of caustic soda which is used as an ad-	ditive for															0	5
		Selective Catalytic Reduction (SCR)								-		-					-		-	
	5410.26	Does the shipboard crew monitor the cataly avoid ammonia slip?	st condition continuously to make sure injected urea is fully	utilized to															0	20
												l score							0	140

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LF	J CAI	RRIE	:R -	VE	RSIC	)N 2	025										
Revision Code	Norm item	RANKING Ship - LPG		MASTER	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING	Doc. & Impl.	CHIEF ENGINEER Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CALEKING PERSONNEL Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
5420	20	SOx Emissions									0								
		A. Emission Monitoring			•						•	•	•		•				
5420		Does the ship use a continuous emission monitoring system (in-situ or extractive) for monitoring and recording emissions?	SOx															0	10
		B. Emission Reduction								_									
5420	20.12	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 to 0.10% sulphur content)	qual															0	30
		C. Additional Questions								-					•				
		Exhaust Gas Cleaning System (EGCS)																	
5420	20.13	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 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).	of															0	10
5420		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	20.15	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		Does the ship have an EGC unit that is capable of operating only in closed-loop mode?																0	10
5420		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	20.19	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
	20.00	Is appropriate PPE being used by the crew during handling of caustic soda which is used as an additive for clo loop scrubbers?	ed-															0	5
5420		loop scrubbers?																	

									025	20	)N	SIO	RS	VE	S - /	IER	RIE	RRIE	RR	RR	<b>IRF</b>	<b>IRF</b>	RR	RR	₹RI	RII	RIE	RIE	RIE	RIE	IEF	ER	ER	R	R -	? - Y	- V	- V	- VI	VE	VΕ	ΈF	ΞR	R	RS	RS	RS	S	S	S	SI	SIC	IOI	101	NC	1 2	20	202	)2	25																											
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	CO₂ - GI	ement	ıppl	n sup	ill-i	nd fi	ns ai	tior	w opt	low	bel	om	e fro	ose	choo	ES, d	YES	YES	If YE	If YI	If Y	If Y	If Y	f YE	YE	YES	YES	YES	ES,	ES,	≣S,	ES, d	:S, (	S, c	S, c	, ch	cho	cho	hoo	hoo	1008	oos	ose	se	e f	e fr	fr	fro	fro	firo	ro	roi	ron	om	om k	m b	be	elo	lov	w	w o	opti	tio	ons	ns	s a	anc	nd f	fill	II-i	in s	sup	pp	ple	em	ent	t C	O <sub>2</sub> ·	- G	loM							
	CO₂ - GI	ement	ıppl	n sup	ill-i	nd fi	ns ai	tior	w opt	low	bel	rom	e fro	oose	choo	ES, d	YES	YES	If YE	If YI	If Y	If Y	If Y	f YE	YE	YE	YES	YES	ES,	ES,	≣S,	ES, d	ES, d	ES, d	ES, d	ES, o	:S, (	S, 0	S, c	, ch	cho	cho	hoo	hoo	1008	oos	ose	ese :	e fi	e fr	fr	fro	fro	fro	ro	roi	ron	om	om k	m b	ı be	elc	lov	ow 	w o	opti	tio	ons	ns	s a	anc	nd f	fill	III-iı	in s	sur	pp	ple	em:	ent	t C	CO <sub>2</sub>	- G	loM			

		CHECKLIST - RANKING CRITERIA - SHIP SURVE	EY - LPG CARRIER - VERSION 2025
Revision Code	Norm item	RANKING Ship - LPG	MASTER Doc. & Impl. CHIEF OFFICER Doc. & Impl. DECK OFFICER Doc. & Impl. DECK RATING Doc. & Impl. CHIEF ENGINEER Doc. & Impl. ENGINEER RATING Doc. & Impl. CATERING PERSONNEL Doc. & Impl. CATERING SCORE RANKING SCORE RANKING MAX. SCORE
		Mid term goals (CO₂ reduction through the use of low carbon fuels)	
M	5440.18	Main propulsion: 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=
М	5440.19	Power generation: 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=

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG CA	CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG CARRIER - VERSION 2025														
Revision Code	Norm item	RANKING Ship - LPG	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
		Long term goals (CO₂ neutral operation through zero carbon fuels)															
М	5440.20	Main propulsion: Does the ship use zero carbon fuels such as:														0	25
		Zero carbon fuels	If YE	S, cl	hoose	from I	belov	v optic	ns							- !	'
		Anhydrous Ammonia							1								
		Hydrogen															
		Fuel Cells (Powered by ammonia or hydrogen)															/
		Batteries															
		Nuclear															
		Other: *fill during survey*													⅃,		
		If Other=	=	-					1						$\perp\!$		
M	5440.21	Power generation: Does the ship use zero carbon fuels such as:														0	25
		Zero carbon fuels	If YE	S, cl	hoose	from I	belov	v optic	ns					_			
		Anhydrous Ammonia															
		Hydrogen															
		Fuel Cells (Powered by ammonia or hydrogen)							<u> </u>							,	/
		Batteries															
		Nuclear															
		Other: *fill during survey*													4,	/	
	F440.00	If Other=	=	1		1	1		1	- 1		-		1	-	1.	0.5
	5440.22	Does the ship use renewable energy sources for energy production such as:	If VE	اء ء:	hoose t	from	holov	v ontic						<u> </u>		0	25
		Renewable Energy source Wind: *fill during survey*	1112	.s, ci	110056	T	De101	v opuo	,,19			1		1			
		Solar					-										
		Other: *fill during survey*	1	-			-		1	-					$\dashv$	/	/
		Wind=	=			<u> </u>			1								
		If Other=	_												$\exists$ /		
		C. Additional Questions													I/_		
	5440.23	Have shipboard personnel received training for energy efficiency measures and related monitoring systems on board?														0	10
									tal sc							0	155
				N	Minimun	n ranki	ing sc	ore req	uired 1	for ele	ement	5440	= 15				

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		CHECI	KLIST - RANKING CRITERIA - SHIP SURVEY - LPG	CAR	RIE	R - \	/ERS	SION	2025	5									
Revision Code	Norm item	GREEN AWARD	RANKING Ship - LPG	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER Doc. & Impl.	DECK RATING	Doc. & Impl.	CHIEF ENGINEER	5   ≥	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	5441	Greenhouse Gas (GHG) Emissions - Methane (CH <sub>4</sub> ) 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 Me	thane Slip on its LNG-fuelled engines?															0	10
		A. Emission Monitoring  Does the ship use a continuous emission monitoring system (in-situ or extractive) for monitoring and recording Methane Slip?  C. Additional questions				-	-		·-	-		-			-			-	
	5441.1																	0	10
	5441.4	Have shipboard personnel received awarenes	s training on methane emissions from LNG-fuelled engines?															0	5
			Total score 0 3  Minimum ranking score required for element 5441 = 0													35			
	5460	Environmental Ship Index (ESI)									0	3,0,11	J. 10						
	5460.2	Does the ship participate in the Environmental	Ship Index (ESI) and are ESI points above 30?												7			0	20
	5460.3	Does the ship participate in the Environmenta	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
				www.	Total score 0 60 Minimum ranking score required for element 5460 = 0						60								
					Min	ımum	anking	score	requi	red foi	' elem	ent 5	460 = 0	I .					

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG CA	ARR	RIEF	R - V	/ER	SIOI	N 20	25									
Revision Code	Norm item	RANKING Ship - LPG	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
	5500	Sewage Management																
M		Sewage Treatment Plant; Effluent Sampling/Monitoring; Causal awareness											_		_			
	5500.8	Is the sewage treatment plant regularly checked and maintained as per manufacturer's guidelines?															0	5
RR	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	5
RR	5500.3	Is the ship in possession of the periodical sample testing report/certificate from a laboratory ashore confirming the compliance with the relevant MEPC standards?															0	5
N		R5500.15-16 alternative to R5500.2 & R5500.3:																
N	5500.15	Is a monitoring equipment installted at the discharge line of the Sewage Treatment Plant onboard to continuously monitor the effluent quality?															0	15
N	5500.16	Is an automated logging equipment in place to record the details of the discharged effluent from the Sewage Treatment Plant installed and implemented?															0	5
N	5500.17	Are there means to create awareness concerning the usage of lavatories onboard, that could have negative impact to the performance of the (biological) sewage treatment plant?															0	5
N		Discharge at port and at sea																
N	5500.13	Is the sewage holding tank used at all ports to avoid discharging sewage overboard (overboard discharge valve closed)?															0	10
N	5500.14	Alternative to 5500.13  Does the ship have in place an alternative mechasim (Class/Flag state approved) to hold sewage on board to avoid discharging at all ports?															0	10
N	5500.11	Does the ship treat sewage with a sewage treatment plant before discharging effluents at sea?															0	5
M	5500.10	Alternative to all the above  Does the ship deliver all its sewage / sewage sludge (regardless of treated or untreated) to port reception facilities (where available)?															0	45
			_		Mini	mum	ranki	20.00		tal sco		lomos	+ 550	10 - 20			0	45
	5510	Grey Water Management			WIIII	mum	I di i Kili	ng scc	160	uired t	or er	emen	1 990	0 - 20				
	5510.1	Is the sewage treatment plant capable of treating grey water before being discharged?											+				0	15
	5510.2	Is the grey water never discharged within the coastal and port areas?	1			- 1					- }		$\dashv$			<u> </u>	0	10
		is the gray mater have also all god mains the codetal and port areas.	$\vdash$						To	otal sco	ore						0	25
					Mini	mum	rankir	ng scc	re rec	uired f	or el	lemen	t 551	0 = 0			_	

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG C	ΔRR	IFR	2 - V	FRS	ION	202	5									<u> </u>	
Revision Code	Norm item	RANKING Ship - LPG	MASTER	Doc. & Impl.	CHIEF OFFICER		DECK OFFICER	9		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	0		0	_	0			Ĭ					Ĭ				
		For ships required to follow D-1 standard (as per International Ballast Water Management Certificate (IBWMC))						•							<b>.</b>		•		
	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?												ı				0	5
	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))																	
	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
	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)												Ĭ				0	5
	5700.13	Does relevant shipboard personnel make use of suitable personal protective equipment (PPE) for handling chemicals used to operate BWTS?																0	10
	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
	5700.15	Is the relevant crew familiarized with the operation of the BWTS installed on board?												L				0	10
		For all ships																	
	5700.7	Are sediment volumes monitored & recorded ?												ı				0	10
	5700.8	Does sediment disposal take place in port (to sediment reception facility) or at sea (more than 200nm from land and at depth greater than 200m)?																0	10
					Minir	num r	ankine			tal sco		lomont	+ 57	00 = 50				0	85
	5800	Accidental Bunker Oil Pollution Prevention Measures (overflow prevention systems)			.411111	uiii I	anking	, 3001	e requ	o	01 61	ement	. 5/	00 - 00					
	5800.5	Are all fuel oil bunker tanks fitted with a high-high level alarm?															+	0	15
	5800.6	Are <b>all</b> fuel oil bunker tanks fitted with an overflow line that is connected to an overflow tank?				$\dashv$											$\dashv$	0	5
	5800.7	Are overflow lines of <b>all</b> fuel oil bunker tanks arranged with a flow alarm?	1			$\dashv$									$\vdash$		-	0	5
	5800.8	Are high level alarms and/or (over) flow alarms given on the location where the person in charge of the bunkering or transfer operation will normally be located?																0	5
		,								tal sco								0	30
			Minimum ranking score required for element 5800 = 5																

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG CA	ARR	RIEF	२ - V	ΈR	SIO	N 202	25											
Revision Code	Norm item	RANKING Ship - LPG	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
	5801	Protective location of fuel and lubrication oil tanks								0										
	5801.1	Are any tanks intended for fuel-oil or other substances, with a minimum capacity of 20m³, constructed at least B/15 or 2 metres above the keel level?																	0	10
	5801.2	Are tanks for fuel oil protected by a double side ? (for ships below 20,000gt, width of double side to be at least 0.76m; for 20,000gt and above, width to be at least 2 metres)																	0	40
	5801.3	Are all lubrication oil tanks constructed at least 0.76 metres above the keel line?																	0	20
	5801.4	Is the ship's hull and/or fuel tanks are built of advanced shipbuilding plates (highly ductile steel) or structural features (for example, sandwich plate structure)?																	0	30
									То	tal sc	ore			_	_	_			0	100
					Mini	mum	ranki	ıg sco	re req	uired	for e	lemen	nt 58	J01 =	20					
	<u> </u>	Lubrication and Use of Oils (Element nr.: 5810, 5811 & 5812)																		
	5810	Stern tube lubrication			0					0		0								
	5810.1	Is the vessel fitted with a class approved stern tube <u>water</u> lubricated system which uses <u>sea water</u> as a lubricant? (system includes water conditioning and monitoring equipment)																	0	60
	5810.6	Alternative for 5810.1, 5810.3, 5810.4 and 5810.5 Is the vessel fitted with a class approved stern tube water lubricated system which uses <u>fresh water</u> as a lubricant? (system includes water conditioning and monitoring equipment) *Additives used to maintain the condition of the water should be environmentally friendly.																	0	50
	5810.3	Alternative for 5810.1 and 5810.6: Is the vessel fitted with a class approved stern tube lubrication system with an <u>air type</u> or <u>void space seal</u> ?																	0	25
	5810.4	Alternative for 5810.1 and 5810.6:  Does the vessel use a stern tube lubricant that is certified according to the EAL/EEL or equivalent?																	0	15
	5810.5	Alternative for 5810.1 and 5810.6: Is the crew aware of characteristics of the environmentally friendly stern tube lubricant (EAL/EEL certified or equivalent) with respect to maintenance & its effect on the system if needed? (e.g. condition of seals & filters, temperature & condition of oil etc.)																	0	5
					Minis		ronki	ng sco		tal sc		lomon	+ E0	210 -	45				0	60
	5811	Mooring wire lubrication			IVIIIII	num	ranki	ig sco	ereq	o	ioi e	o	ıt 30	10 =	13					
	5811.1	Does the vessel use a mooring wire lubricant / grease that is certified according to the EEL?															4		0	20
	5511.1	Does the vesser use a mooning whe hubilicant / grease that is certained according to the EEL!			<u> </u>				То	tal sc	ore			Щ		Щ			0	20
					Mini	mum	ranki	ıg sco				lemen	nt 58	311 =	0		_			
	5812	Deck equipment lubrication (use of oils)								0		0								
	5812.1	Does the vessel use grease that is certified according to the EEL (all deck equipment)?																	0	15
	5812.2	Does the vessel use gear oil that is certified according to the EEL (all deck equipment)?												Ĺ		L			0	10
	5812.3	Does the vessel use hydraulic oil that is certified according to the EEL in mooring and anchor appliances?																	0	10
	5812.4	Does the vessel use hydraulic oil that is certified according to the EEL in crane appliances?																	0	10
	5812.6	Is the crew aware of characteristics of environmentally friendly lubricants (EEL certified) with respect to maintenance & their effect on the applicable system if needed? (e.g. condition of seals & filters, temperature & condition of oil, prevention of humidity ingress etc.)																	0	10
			Total score 0  Minimum ranking score required for element 5812 = 0										55							
	1				Minii	mum	ranki	ig sco	re req	uired	tor e	iemen	ıt 58	i12 =	U					

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG C	ARF	RIEF	R - V	/ER	SIO	N 20	)25										
Revision Code	Norm item	RANKING Ship - LPG	MASTER	Joc. & Impl.	CHIEF OFFICER	Joc. & Impl.	DECK OFFICER	Joc. & Impl.	DECK RATING	CHIEF ENGINEER	Joc. & Impl.	ENGINEER OFFICER	Joc. & Impl.	ENGINEER RATING	Joc. & Impl.	CATERING PERSONNEL	Joc. & Impl.  VOT APPLICABLE	ANKING SCORE	SANKING MAX. SCORE
į	5820	Management of bilge water and sludge handling onboard	_		0		0		0	0		0					1		
	5820.3	Are engine room personnel familiarized with on board sludge and bilge water management procedures?																0	10
-	5820.4	Are engine room personnel familiar with the system layout, drawings and manuals?																0	5
										otal s								0	15
-	E004	Outfliebing of hilling contains			Mini	mum	ranki	Ť	ore r	quire	_		_	320 =	15				
	5821	Outfitting of bilge water system			U		U		U	U		0							
		A. Clean Drains (Drains that are <u>normally not</u> contaminated by oil)  Does the bilge water from the Clean drain tank (for the collection of "clean drains" As per MEPC.1/Circ.642) pass						-							- 1				1
	5821.1	through 15 ppm oil content meter and alarm?																0	5
	5821.17	Does the engine room logbook logs discharges from the Clean drain tank (tank used for the collection of "clean drains", as per MEPC.1/Circ.642)?																0	5
		B. Soot Collection Tank arrangement																	
	5821.10	Is washwater from the economizer/boilers collected in a Soot separation / collection tank?																0	5
į	5821.18	Is soot separation / collection tank decanted, remaining water transferred to bilge holding tank and solid soot particles collected for garbage disposal (reception facility)?																0	10
ŧ	5821.11	Is an independent pump arrangement available for the discharge from the Soot separation / collection tank to overboard?												0	5				
ŧ	5821.2	Are management instructions regarding disposal of soot and soot-water mixtures available onboard?																0	5
		C. Oily bilge water tank arrangement																	
ŧ	5821.12	Is all Oily bilge water from the bilge wells/drains transferred to the Bilge Primary Tank or pre-separation system for pre-separation of oil and water?																0	5
į	5821.5	Is Oily bilge water from the Oily bilge water holding tank pumped through the Oily Water Separator to the Clean water tank (rather than overboard discharge)?																0	5
		D. Oily water separator / Oil content meter						-		-							-		
	5821.6	N/A for vessels keel laid after 2005 Is the oil content meter with an automatic stopping device capable of measuring the difference between emulsifying particles and oil installed, as per IMO resolution MEPC.107(49)?																0	5
ŧ	5821.7	Is there an equipment or a protection system (e.g. White Box) installed that stops the Oily Water Separator from discharging overboard when the Oil Content Meter is flushed/diluted with clean water to prevent illegal discharges of bilge water from machinery spaces?																0	10
ŧ	5821.15	Is the authority for operating and maintaining the Oily Water Separator and Oil Content Meter with the master or this is automatically logged in the system?																0	5
ŧ	5821.16	Alternative to 5821.15 Is the ship equipped with a system which would ensure that operation and maintenance of the Oily Water Separator and Oil Content Meter can only be started with the Master's permission (for example, Main/Master Switch on bridge)?																0	5
ţ	5821.8	N/A for vessels keel laid after 2005  Is the Oily Water Separator equipped with a re-circulating facility for testing the device with the closed overboard discharge (As per IMO resolution MEPC.107(49) 6.1.1.)?																0	5
ŧ	5821.19	Does the ship have in operation a Class-approved equipment that ensures that the oil content of the bilge water effluent without dilution does not exceed 5 parts per million?																0	10
[		5821.9 is an alternative to 5821.1 - 5821.19 (all the above)																	
ŧ	5821.9	Is all the bilge water from machinery spaces always delivered to reception facilities?																0	80
T								ng so		otal s								0	80

		CI	HECKLIST - RANKING CRITERIA - SHIP SU	IRVEY - LPG CA	\RR	IFR	2 - V	/FR	SIO	N 20	125									·	
Revision Code	Norm item	GREEN AWARD	RANKING Ship - LPG		MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER		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
	5822	Outfitting of sludge handling system					0		0		0	0		0							
	5822.1	Is a sludge collecting pump installed (wit Residue (Sludge) Tank)?	th the sole purpose of collecting the sludge from differen	ER tanks to the Oil																0	5
	5822.2	Is a sludge discharge pump installed wit capacity to discharge the sludge within 8	th the purpose of discharging the sludge to reception faci 3 hrs)	lities (with sufficient																0	5
	5822.8	Is a tank or system installed with the sol	e purpose of removing large quantities of water from the	sludge?	0 5												5				
	5822.9		ith the sole purpose of evaporating water from the sludge														5				
	5822.10	Is a separate tank or system installed wi	ith the purpose of mixing the sludge while incinerated (in	incinerator or																0	5
	5822.6	Alternative to 5822.8 - 5822.10 Is all the ship sludge always delivered to	p reception facilities?																	0	20
							Bdinis		un milei		ore re	otal s			FO	22 - 4	•			0	30
	5900	Ship Recycling - Inventory of Hazardo	ous Materials		0		O	mum	Tanki	ing Sc	ore re	quired		o		22 = 1					
	5900.10		dazardous Materials" (Part I completed)?		_		_										-			0	110
	5900.13	,	s been started to prepare Part I of the "Inventory of Haza	rdous Materials"													40				
	5900.14		M maintenance process, for example, for the collection of chased items that fall into the scope of IHM Part I?	f Material	0 20																
					Total score 0 130 Minimum ranking score required for element 5900 = 40											130					

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG C	ARF	RIEF	۲ - ۱	/ER	SIOI	N 202	25										
Revision Code	Norm item	RANKING Ship - LPG	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.	Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	6000	MAINTENANCE / SURVEYS																	
	6100	Programme of Inspections	0							0									
	6100.1	Does the ship have an internal technical inspection programme?																0	10
	6100.2	Are relevant previous survey and internal technical inspection reports available on board?																0	10
	6100.3	Does the ship have a repair history?																0	10
	6100.4	Does the company issue procedures/instructions for hull / ship's construction condition inspections to be carried out by the ship's personnel?																0	20
	6100.8	Is there a company procedure available for the assessment of cold-spots?																0	10
					N#:~:		roek!			tal sc		lone e :	nt C41	20 = 60				0	60
	6110	Critical and Stand-by Equipment	Minimum ranking score required for element 6100 = 60																
	6110.5	Is a Computer Based Program installed to register failures, break downs and near misses in order to have a																0	10
	6110.7	constant event report on the systems?  Is a Computer Based Program installed for spare parts management of critical equipment and stand- by equipment?						-							-			0	10
	6110.8	Is a safety stock available for critical equipment and stand-by equipment?													-			0	10
	0110.0	15 a Salety Stook available for Gittoar equipment and Stand-by Equipment:			<u> </u>				То	tal sc	ore						-	0	30
					Mini	mum	rankiı	ıg sco	re req	uired 1	for e	lemer	nt 611	10 = 10	)				
	6200	Mooring Equipment	0		0			C	)										
	6200.1	Are winch brake tests carried out and recorded at least once a year or after an excessive load?																0	10
	6200.2	Is a winch brake test kit on board?																0	5
	6200.3	Is an overview available with all details of mooring wires / fibre ropes, winches, inspections, maintenance, tests etc.?																0	10
	6200.4	Is the ship provided with information on the design of the mooring system? (with examples to show the loads likely to be experienced under particular conditions and to illustrate those situations under which the limit of the system is likely to be reached)																0	10
	6200.5	Are inspection, maintenance and discard criteria for mooring wires and tails / fibre ropes established and carried out by a competent person? (time interval for inspection should be in the PMS)																0	10
	6200.8	Do these criteria take manufacturer's recommendations into account ?																0	10
	6200.9	Does an additional examination take place after unusual events, such as long periods of inactivity, excessive loads, heat exposure, loading/discharge at swell ports, etc?																0	5
	6200.10	Are internal inspections for wires + fibre ropes carried out & do these inspections take manufacturer's recommendations into account?																0	10
	6200.11	Are the lubricants & cleaning products compatible with the wire and approved by the wire manufacturer?											1					0	5
	6200.6	Is a log for "workingdays" of mooring wires and tails / fibre ropes maintained? (to predict the point of discard & for evaluation of wire/rope performance)																0	10
	6200.7	Is an automatic wire rope lubricator in use on board?														0	10		
	6200.12	Alternative for 6200.7: (for fibre ropes) Are there procedures for care of fibre ropes?													10				
			Total score 0 95																
	I		Total score 0  Minimum ranking score required for element 6200 = 65																

		·																	
		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG CA	ARR	RIEF	₹ - V	ER:	SION	202	5										
Revision Code	Norm item	RANKING Ship - LPG	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
	6300	Corrosion Prevention of Seawater Ballast Tanks			0					0									
	6300.1	Are ballast tanks of double-hulled vessel, coated with a hard coating of a light colour?																0	20
	6300.6	Alternative to 6300.1 Are ballast tanks coated with dark epoxy maintained with a modified epoxy coating of a light colour, after safety benefit assessment is carried out?																0	10
	6300.7	Is the coating approved according to the IMO performance standard? (type approval or statement of compliance according to Res. MSC 215(82) in Coating Technical File)																0	20
	6300.2	Are ballast tanks maintained in a good condition?																0	20
	6300.3	Are manufacturer's technical product data sheets and job specifications of the coatings on board?					-											0	5
	6300.5	Is the corrosion prevention system, other than coating, included in the maintenance system?																0	5
			Total score  Minimum ranking score required for element 6300 = 40													70			
	6400	Condition Assessment Program, Maintenance Additional Green Award requirements	Minimum ranking score required for element 6300 = 40																
		Does the ship hold a CAP rating for Hull with Rating / Grade 2 as a minimum?	•		_					_									
	6400.1	(When the vessel reaches 15 years of age, or by the end of the 3rd special survey, whichever is earlier.)																0	25
	6400.8	Does the ship hold a CAP rating for <u>Carqo 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 <u>Machinery</u> with Rating / Grade 2 as a minimum? (When the vessel reaches <u>15 years</u> of age, or by the <u>end of the 3rd special survey</u> , whichever is earlier.)																0	20
	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
					Mini	mum	rankin	1 600		tal sc		leme	nt 64	00 = 60	n			0	120
	6500	Certificates for Cargo Gear	0		0		· arrang	, 555	3 104	O			04	50 - 50	_				
	6500.1	Is a register of cargo handling gear and lifting appliances issued? (CG1)																0	10
	6500.2	Is a certificate of test and thorough examination of lifting appliances issued? (CG2)						T										0	10
	6500.3	Is a certificate of test and thorough examination of loose gear issued? (CG3)													0	10			
	6500.4	Is a certificate of test and thorough examination of wire rope issued? (CG4)																0	10
			Total score 0 40																

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG CA	4RR	RIEF	R - \	VER	SIO	N 2	025											
Revision Code	Norm item	RANKING Ship - LPG	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING	Doc. & Impl.	CHIEF ENGINEER		Doc & Inni	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl.	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
	7200.5	Is there a gas engineer onboard?														0	10			
	7200.6	Is there an electrical officer onboard in addition to the engine officers required by the safe manning document?														0	10			
			Total score Minimum ranking score required for element 7200 = 20														0	70		
M/RR	7300																			
	7300.1	Has the 2nd officer (deck) completed an approved Advanced training for Liquified gas tanker cargo operations? (As a minimum, the program should comply with STCW 2010 including Manila amendments Reg V/1-2)																	0	20
	7300.2	Are all onboard personnel trained and qualified according to the approved Basic training for Liquified tanker cargo operations? (as STCW 2010 including Manila amendments Reg V/1-2) (If training comprises at least 3 months approved seagoing service on tankers (instead of an approved tanker familiarization course) this should include onboard computer-based training (CBT) and a documented system showing participation and qualifications.)																	0	10
	7300.5	Has the onboard management completed the onboard assessment/train the trainer course (IMO 1.30)?																	0	5
	7300.6	Have the officers involved in cargo and ballast handling completed a simulator based training/course (IMO 1.35)?																	0	10
	7300.7	Have the ship personnel completed "Marine Environmental Awareness" course? (IMO 1.38).																	0	5
	7300.8	Have all the deck officers completed bridge team management/bridge resource management training course (IMO 1.22) ?																	0	5
	7300.19	Have all the engine officers completed engine room resource management training course?																	0	5
	7300.20	Alternative for 7300.8 & 7300.19 Have all the officers completed maritime resource management course?																	0	10
M	7300.10	Are there cadets currently onboard or has there been any in the last 6 months?																	0	10
	7300.11	Has the gas engineer completed the advanced training for liquified gas tanker cargo operations? (IMO 1.06)														1			0	10
	7300.12	Have all the senior officers (Master, Chief Officer, Chief Engineer, 2nd Engineer and Gas Engineer) completed the Liquid Cargo Operations Simulator (LICOS) course as recommended by SIGTTO for senior officers and relevant to cargo containment type?													0	10				
	7300.13	Have all the junior officers (2nd Officer, 3rd Officer, 3rd Engineer and 4th Engineer) completed the Liquid Cargo Operations Simulator (LICOS) course as recommended by SIGTTO for junior officers and relevant to cargo containment type?																	0	20
RR			L		Ba:	lance of the					score			7202	- 00				0	110
RR	I		I		Min	ımum	ı rank	ing s	core	requii	ed for	elei	ment	7300	= 60					

		CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG CA	ARF	RIEF	R - '	VER	RSIC	ON 2	2025	;										
Revision Code	Norm item	RANKING Ship - LPG	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	CATEBING BEDSONNEI	Doc. & Impl.	NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	7400	Familiarisation, Additional Green Award Requirement	0		0	_	0		0		0	_	0		0		0			
	7400.1	Have all the ship board crew after a period of absence or leave has been provided with familiarization of changes with regard to the operations/machinery which is related to their position?																	0	20
	7400.2	Have all newly employed/engaged shipboard crew (first ship for that specific company) been provided with familiarization with regard to operations/machinery which is related to their position?																	0	20
	7400.10	In those cases when junior or senior officers are transferred to another class of ship that differ considerably from where their experience lie, is an onboard appropriate operational experience with previous off-signing officers implemented for a specific minimum period?																	0	10
	7400.4	Are the company format handover reports from all off - signing officers available onboard?																	0	10
	7400.7	Are the on-signers aware of the content of the hand-over reports?																	0	10
			-		Min	nimum	ı rani	kina s	score		ired		leme	nt 74	100 = 50	)			0	70
	7500	Safe Manning and Fatigue Management	0																	
		A. General - managing work/rest hours																		
	7500.1	Are work/rest hours performed by the individual seafarer recorded with the use of a software programme and the reports generated accessible for the office?																	0	5
RR	7500.2	Is the master provided with instruction/procedure to monitor and address non compliance on STCW 2010 Manila amendments on work/rest hours onboard?																	0	5
		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?																	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	20
RR	7500.10	Does the Master implement the use of any one of the following fatigue management tools (as described in IMO MSC.1/Circ1598) by shipboard crew on board: - Sleep Diary - Self-monitoring through fatigue and sleepiness ratings - Fatigue self-assessment tool - Fatigue event reporting																	0	20
		C. Additional questions - reporting, training & awareness			-		-		-		-					-		-	_	
	7500.7	Does the ship have a procedure in which crew members are able to report to a designated person on fatigue related issues without fearing any action against them for such communication?																	0	5
	7500.11	Do all shipboard crew members undergo company fatigue management training and awareness campaigns on an initial and recurrent basis?	n an												0	5				
N	7500.12	Does the ship consider during near-miss investigations, fatigue as one of the factors causing the incident?																	0	5
RR															0	95				
RR			Total score  Minimum ranking score required for element 7500 = 60																	

JA 000	·.		omp name.															Date c	i Onip C	ui voy.
		СН	IECKLIST - RANKING CRITERIA - SHIP SURVEY - LPG	CAR	RIER	S - N	/ER	SIC	)N 2	025										
Revision Code	Norm item	GREEN AWARD	RANKING Ship - LPG	MASTER	Doc. & Impl.	CHIEF OFFICER	Doc. & Impl.	DECK OFFICER	Doc. & Impl.	DECK RATING	Doc. & Impl.	Doc. & Impl.	ENGINEER OFFICER	Doc. & Impl.	ENGINEER RATING	Doc. & Impl.	CATERING PERSONNEL	Doc. & Impl. NOT APPLICABLE	RANKING SCORE	RANKING MAX. SCORE
	9000	REQUIREMENTS ACCORDING TO ISO	STANDARDS																	
	9421	ISO Certification																		
	9421.1	Is the ship certified for the latest edition o	f ISO 9001 (quality management systems)?																0	10
	9421.2	Is the ship certified for the latest edition o management and people development)?	f ISO 10015 (quality management – guidelines for competence																0	10
	9421.3	Is the ship certified for the latest edition o	f ISO 14001 (environmental management systems)?																0	10
	9421.4	Is the ship certified for the latest edition o systems)?	f ISO 22301 (societal security – business continuity management																0	10
	9421.5	Is the ship certified for the latest edition o	f ISO 27001 (information security management systems)?																0	10
	9421.6	Is the ship certified for the latest edition o	f ISO 30401 (knowledge management systems – requirements)?																0	10
	9421.7	Is the ship certified for the latest edition of	f ISO 45001 (occupational health and safety management systems)?							_									0	10
	9421.8	Is the ship certified for the latest edition o	f ISO 50001 (energy management systems)?																0	10
																80				

Electronic chart display & information systems / ECDIS   3.0		CHECKLIST - RANKING CRITERIA - SURVEY - LPG CARRIER - VERSION 202	25			
Enclosed Space Entry & Hot Work	Norm item		SHIP'S RANKING SCORE	MAXIMUM OBTAINABLE RANKING SCORE	MINIMUM RANKING SCORE REQUIRED	ELEMENTS WITH NO MINIMUM SCORE
Compressor for the refilling of air cylinders for breathing apparatus or Alternative, Additional Green Award requirement	1000	GENERAL	-			
Control of drugs & alcohol onboard / Medical examination	1200	Enclosed Space Entry & Hot Work	0	80	80	
Emergency Response System	1300	Compressor for the refilling of air cylinders for breathing apparatus or Alternative, Additional Green Award requirement	0	20	10	
Emergency Oil Recovery	1400	Control of drugs & alcohol onboard / Medical examination	0	45	30	
Computer Systems, Networks, Data Security and Training. GA requirement   0	1500	Emergency Response System	0	30	15	
Cyber Risk Management	1510	Emergency Oil Recovery	0	10	0	
Noise and Vibration Management	1600	Computer Systems, Networks, Data Security and Training. GA requirement	0	60	30	
	1610	Cyber Risk Management	0	35	15	
	1700	Noise and Vibration Management	0	50	15	
NAVIGATION   SRIDGE OPERATIONS	1710	Underwater Noise and Vibration Management	0	5	0	
Navigation   Navigation   120   140   121   140   140   121   140   140   121   140   14	1800	Social Dimension / Sustainability	0	50	10	
Electronic chart display & information systems / ECDIS   3.0	2000	NAVIGATION / BRIDGE OPERATIONS				
Environmental Requirements during the Voyage	2100	Navigation	0	120	40	
Helicopter / Ship Operations   0   20   20   20   20   20   20   20	2111	Electronic chart display & information systems / ECDIS	0	55	30	
Mooring Operations	2120	Environmental Requirements during the Voyage	0	45	40	
MACHINERY   ENGINE OPERATIONS	2200	Helicopter / Ship Operations	0	20	20	
Sunker Operations	2300	Mooring Operations	0	50	30	
Bunker Operations - LNG	3000	MACHINERY / ENGINE OPERATIONS				
Fuel oil management   0	3100	Bunker Operations	0	50	50	
CARGOES / CARGO OPERATIONS   160   90   90   90   90   90   90   90	3101	Bunker Operations - LNG	0	50	25	
LPG Carrier Cargo Operations & Additional Green Award requirements	3200	Fuel oil management	0	80	40	
Ship to Ship Transfer Operations	4000	CARGOES / CARGO OPERATIONS				
4400       Additional Green Award Requirements (tank alarms, coatings, etc.)       0       170       100         4500       Hull Stress Monitoring System       0       20       0         5000       PREVENTION OF POLLUTION         5100       Biofouling Management       0       30       5         5200       Waste Management / Garbage Handling Onboard       0       125       50         5410       NOx Emissions       0       140       35         5420       SOx Emissions       0       105       15         5421       Ships required to carry out Fuel Change Over to low sulphur Marine Diesel Oil or low sulphur Marine Gas Oil (low sulphur Distillates)       0       75       55         5430       Particulate Matter (PM) Emissions       0       30       0         5440       Greenhouse Gas (GHG) Emissions - CO2 Emissions       0       155       15         5441       Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion       0       35       0         5460       Environmental Ship Index (ESI)       0       60       0	4100	LPG Carrier Cargo Operations & Additional Green Award requirements	0	160	90	
Hull Stress Monitoring System   0   20   0	4200	Ship to Ship Transfer Operations	0	30	30	
PREVENTION OF POLLUTION   Siofouling Management   Garbage Handling Onboard   0   125   50   5200   Waste Management / Garbage Handling Onboard   0   125   50   5410   NOx Emissions   0   140   35   5420   SOx 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   55   55   55   55   55	4400	Additional Green Award Requirements (tank alarms, coatings, etc.)	0	170	100	
Biofouling Management   Sarbage Handling Onboard   0   125   50	4500	Hull Stress Monitoring System	0	20	0	
5200         Waste Management / Garbage Handling Onboard         0         125         50           5410         NOx Emissions         0         140         35           5420         SOx Emissions         0         105         15           5421         Ships required to carry out Fuel Change Over to low sulphur Marine Diesel Oil or low sulphur Marine Gas Oil (low sulphur Diesel Oil or low sulphur Marine Gas Oil (low sulphur Oil or	5000	PREVENTION OF POLLUTION				
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         5460       Environmental Ship Index (ESI)       0       60       0	5100	Biofouling Management	0	30	5	
SOX Emissions  Ships required to carry out Fuel Change Over to low sulphur Marine Diesel Oil or low sulphur Marine Gas Oil (low sulphur Distillates)  75 55  421 Ships required to carry out Fuel Change Over to low sulphur Marine Diesel Oil or low sulphur Marine Gas Oil (low sulphur Distillates)  75 55  430 Particulate Matter (PM) Emissions  Greenhouse Gas (GHG) Emissions - CO2 Emissions  640 Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  640 Environmental Ship Index (ESI)  641 Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  640 Environmental Ship Index (ESI)	5200	Waste Management / Garbage Handling Onboard	0	125	50	
Ships required to carry out Fuel Change Over to low sulphur Marine Diesel Oil or low sulphur Marine Gas Oil (low sulphur Distillates)  5421 Ships required to carry out Fuel Change Over to low sulphur Marine Diesel Oil or low sulphur Marine Gas Oil (low sulphur Diesel Oil or low sulphur Marine Gas Oil (low sulphur Diesel Oil or low sulphur Marine Gas Oil (low sulphur Diesel Oil or low sulphur Marine Gas Oil (low sulphur Diesel Oil or low sulphur Marine Gas Oil (low sulphur Diesel Oil or low sulphur Marine Gas Oil (low sulphur Diesel Oil or low sulphur Marine Gas Oil (low sulphur Diesel Oil or low sulphur Marine Gas Oil (low sulphur Diesel Oil or low sulphur Marine Gas Oil (low sulphur Diesel Oil or low sulphur Marine Gas Oil (low sulphur Diesel Oil or low sulphur Marine Gas Oil (low sulphur Diesel Oil or low sulphur Marine Gas Oil (low sulphur Diesel Oil or low sulphur Marine Gas Oil (low sulphur Diesel Oil or low sulphur Marine Gas Oil (low sulphur Diesel Oil or low sulphur Marine Gas Oil (low sulphur Diesel Oil or low sulphur Marine Gas Oil (low sulphur Diesel Oil or low sulphur Marine Gas Oil (low sulphur Diesel Oil or low sulphur Diesel Oil	5410	NOx Emissions	0	140	35	
5421       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         5460       Environmental Ship Index (ESI)       0       60       0	5420	SOx Emissions	0	105	15	
Greenhouse Gas (GHG) Emissions - CO2 Emissions  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - CO2 Emissions  Greenhouse Gas (GHG) Emissions - CO2 Emissions  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  Greenhouse Gas (GHG) Emissions - Main Propulsion - Mai	5421		0	75	55	
Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion  60 35 0  60 0	5430	Particulate Matter (PM) Emissions	0	30	0	
5460 Environmental Ship Index (ESI) 0 60 0	5440	Greenhouse Gas (GHG) Emissions - CO2 Emissions	0	155	15	
	5441	Greenhouse Gas (GHG) Emissions - Methane (CH4) Emissions - Main Propulsion	0	35	0	
5500 Sewage Management 0 45 20	5460	Environmental Ship Index (ESI)	0	60	0	
	5500	Sewage Management	0	45	20	

STOTAL SCORE REVIEW   SHIP SURVEY - LPG CARRIER   STOTAL SCORE REVIEW   STOTAL SCO	I NO
Section   Ballast Water Management   0	ELEMENTS WITH NO MINIMUM SCORE
Accidental Bunker Oil Pollution Prevention Measures (overflow prevention systems)   0   30   5	
5801       Protective location of fuel and lubrication oil tanks       0       100       20         5810       Stern tube lubrication       0       60       15         5811       Mooring wire lubrication (use of oils)       0       20       0         5812       Deck equipment lubrication (use of oils)       0       55       0         5820       Management of bilge water and sludge handling onboard       0       15       15         5821       Outfitting of bilge water system       0       80       20         5822       Outfitting of sludge handling system       0       30       10         5900       Ship Recycling - Inventory of Hazardous Materials       0       130       40         6000       MAINTENANCE / SURVEYS         6100       Programme of Inspections       0       60       60         6110       Critical and Stand-by Equipment       0       30       10         6200       Mooring Equipment       0       95       65         6300       Corrosion Prevention of Seawater Ballast Tanks       0       70       40         6400       Condition Assessment Program, Maintenance Additional Green Award requirements       0       120       60	
5810         Stern tube lubrication         0         60         15           5811         Mooring wire lubrication         0         20         0           5812         Deck equipment lubrication (use of oils)         0         55         0           5820         Management of bilge water and sludge handling onboard         0         15         15           5821         Outfitting of bilge water system         0         80         20           5822         Outfitting of sludge handling system         0         30         10           5900         Ship Recycling - Inventory of Hazardous Materials         0         130         40           6000         MAINTENANCE / SURVEYS         80         80         60         60         60           6110         Critical and Stand-by Equipment         0         30         10         60         60           610         Mooring Equipment         0         95         65         65         65           6300         Corrosion Prevention of Seawater Ballast Tanks         0         70         40           6400         Condition Assessment Program, Maintenance Additional Green Award requirements         0         120         60	
5811       Mooring wire lubrication       0       20       0         5812       Deck equipment lubrication (use of oils)       0       55       0         5820       Management of bilge water and sludge handling onboard       0       15       15         5821       Outfitting of bilge water system       0       80       20         5822       Outfitting of sludge handling system       0       30       10         5900       Ship Recycling - Inventory of Hazardous Materials       0       130       40         6000       MAINTENANCE / SURVEYS         6100       Programme of Inspections       0       60       60         6110       Critical and Stand-by Equipment       0       30       10         6200       Mooring Equipment       0       95       65         6300       Corrosion Prevention of Seawater Ballast Tanks       0       70       40         6400       Condition Assessment Program, Maintenance Additional Green Award requirements       0       120       60	
Deck equipment lubrication (use of oils)	
Management of bilge water and sludge handling onboard  Outfitting of bilge water system  Outfitting of sludge handling system  Ship Recycling - Inventory of Hazardous Materials  MAINTENANCE / SURVEYS  Outfitting of sludge handling system  MAINTENANCE / SURVEYS  Condition Assessment Program, Maintenance Additional Green Award requirements  Maintenance of the second	
5821       Outfitting of bilge water system       0       80       20         5822       Outfitting of sludge handling system       0       30       10         5900       Ship Recycling - Inventory of Hazardous Materials       0       130       40         6000       MAINTENANCE / SURVEYS         6100       Programme of Inspections       0       60       60         6110       Critical and Stand-by Equipment       0       30       10         6200       Mooring Equipment       0       95       65         6300       Corrosion Prevention of Seawater Ballast Tanks       0       70       40         6400       Condition Assessment Program, Maintenance Additional Green Award requirements       0       120       60	
Sezz Outfitting of sludge handling system  Ship Recycling - Inventory of Hazardous Materials  Outfitting of sludge handling system  Ship Recycling - Inventory of Hazardous Materials  Outfitting of sludge handling system  Outfitting outfitting system  Outfitting outfitting system  Outfitting outfit	
5900         Ship Recycling - Inventory of Hazardous Materials         0         130         40           6000         MAINTENANCE / SURVEYS         0         60         60           6100         Programme of Inspections         0         60         60         60           6110         Critical and Stand-by Equipment         0         30         10           6200         Mooring Equipment         0         95         65           6300         Corrosion Prevention of Seawater Ballast Tanks         0         70         40           6400         Condition Assessment Program, Maintenance Additional Green Award requirements         0         120         60	
6000         MAINTENANCE / SURVEYS           6100         Programme of Inspections         0         60         60           6110         Critical and Stand-by Equipment         0         30         10           6200         Mooring Equipment         0         95         65           6300         Corrosion Prevention of Seawater Ballast Tanks         0         70         40           6400         Condition Assessment Program, Maintenance Additional Green Award requirements         0         120         60	
6100         Programme of Inspections         0         60         60           6110         Critical and Stand-by Equipment         0         30         10           6200         Mooring Equipment         0         95         65           6300         Corrosion Prevention of Seawater Ballast Tanks         0         70         40           6400         Condition Assessment Program, Maintenance Additional Green Award requirements         0         120         60	
6110 Critical and Stand-by Equipment 0 30 10 6200 Mooring Equipment 0 95 65 6300 Corrosion Prevention of Seawater Ballast Tanks 0 70 40 6400 Condition Assessment Program, Maintenance Additional Green Award requirements 0 120 60	
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	
6300 Corrosion Prevention of Seawater Ballast Tanks  6300 Condition Assessment Program, Maintenance Additional Green Award requirements  0 70 40 60	
6400 Condition Assessment Program, Maintenance Additional Green Award requirements 0 120 60	
6500 Certificates for Cargo Gear 0 40 40	
7000 CREW	
7200 Extra personnel, Additional Green Award Requirement 0 70 20	
7300 Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses 0 110 60	
7400 Familiarisation, Additional Green Award Requirement 0 70 50	
7500 Safe Manning and Fatigue Management 0 95 60	
9000 REQUIREMENTS ACCORDING TO ISO STANDARDS	
9421 ISO Certification 0 80 0	
TOTAL SCORES 0 3505 1535	

### 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 5410.11 - 5410.18) NA				
For DIESEL-ELECTRIC & DUAL FUEL (LNG / LPG) data, use "OTHER E	NGINE" mod	ules below		
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	e		
MAIN ENGINE 2	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	е		
ALIVILIADV ENGINE 4	lua XI		DDM	
AUXILIARY ENGINE 1	NA→	Tier 1	RPM	Tier 3
Applicable NOv emission limit (all/Wh)		i ier 1	Tier 2	i ier 3
Applicable NOx emission limit (g/kWh)  Engine's actual NOx emission value (g/kWh)				
Percentage reduction		NA	NA	NA
reformage reduction	GA Compliand		INA	INA
		-1		
AUXILIARY ENGINE 2	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		
AUXILIARY ENGINE 3	NA→		RPM	
	1 2	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	е		
ALIVILIARY ENGINE 4	lua X		DDM	
AUXILIARY ENGINE 4	NA→	Tion 4	RPM	Tion 2
Applicable NOv emission limit (all/Wh)		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
reformage reduction		INA	INA	IVA

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### **SUPPLEMENT TO 5410 - NOx EMISSIONS**

DATA FROM "SUPPLEMENT TO <u>ENGINE</u> 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 Complia	nce		
OTHER ENGINE	NA→		RPM	
OTHER ENGINE	INA 7	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 Complia	nce		
OTHER ENGINE	lua XI		RPM	
OTHER ENGINE	NA→	Tier 1	Tier 2	Tier 3
Applicable NOx emission limit (g/kWh)		TICI I	TICL 2	TICI O
Engine's actual NOx emission value (g/kWh)				
Percentage reduction		NA	NA	NA
	GA Complia	nce		

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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
	<u>Hybridization (plug-in or conventional)</u>	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.

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

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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.

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

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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 - LPG CARRIER (PMC-10)

	Green Award Visual Inspection - LPG Carrier				
Check Box	Norm item	GREEN AWARD	Inspection Focus	Remarks	
	8100	Machinery			
	8101	Reports			
	8101.1	Classification reports	Survey reports with recommendations and conditions of class, repairs		
	8101.2	State Authority reports	Survey reports, recommendations		
		Company Reports	Inspection, repair, maintenance, planning, dry-dock reports by ship's staff and superintendents		
	8101.4	Inspection guidelines	Guidelines on the means of access to structures for inspection and maintenance of oil tankers		
	8101.5	Other reports	Vetting reports by chartering companies and independent surveyors		
	8102	Engine Room			
		Overall tidyness of E.R. space	Unsecured and loose material, tools and E.R. spare-parts		
		General cleanlinesss of E.R.	Oil- & gas-free enviroment		
		Storage E.R. equipment	Equipment stored at designated places		
	8102.4	Handling of general E.R. waste	General waste stored & handled properly		
	8102.5	Indication of E.R. emergency escapes	Clearly visible and not obstructed		
		Save-alls	Oil, liquid and dirt free		
	8102.7	Workshop	Safety instructions near machinery (Grindstone, Lathe etc)		
	8103	Main Propulsion			
	8103.1	Exhaust gas lines	Leakage / condition of lagging, black spots and stripes / loose lagging		
		Fuel lines H.P. & L.P.	H.P. pipes condition of protecting pipe/cover, L.P. pipes check leakage and heating tracings		
		Cleanliness of cylinder heads	Fuel oil, cooling water, lub. Oil and exhaust gas leaks		
		Instructions on emergency stand	Are there clear instructions available for changing over from normal to emergency conditions		
	8103.5	Condition of controllers / thermo couples & wiring	Loose wires, open doors of controllers		
		Fuel oil system	Filters for leakage, purifiers cleanliness, area around purifiers		
	8103.7	Lub. Oil system	Filters and safealls, purifiers condition		
		Starting air system	Condition of starting air lines and valves		
	8103.9	Cooling water system	Condition of expansion bellows		
	8104	Auxiliary Engines			
	8104.1	General performance			
	8104.2	Leakage, condition of fuel oil, lub. oil lines	Cracks, corrosion and / or pipes connections not tight		
	8104.3	•	Oil-, water-, corrosion- and dirt-free		
	8104.4	Emergency Generator	Condition and date last tested		
		Boilers			
	8105.1	Steam or Thermal oil			
	8105.2	Condition of burner front	Oil leakage, and air leakage		
	8105.3	Lagging / isolation of fuel and steam lines	Condition of lagging		
	8105.4	Thermal Oil	Check possible leakages bellows / quick closing valves		
	8105.5	Boiler bilge / Save-all	Oil-, water-, corrosion- and dirt-free		

Green Award Visual Inspection - LPG Carrier				
Check Box	Norm item	GREEN AWARD	Inspection Focus	Remarks
	8100	Machinery		
	8106	Bilge System		
	8106.1	Cleanliness of bilges on every platform	Presence of oil, water, corrosion and / or dirt	
	8106.2	Bilge separator, position of all valves		
	8106.3	In port overboard valve sealed		
		Condition and record regarding oily-bilge separator	Check Oil Record Book - Machinery Space Operations	
		Bilge alarms	Alarms high level & high-high level in good condition	
	8106.6	Emergency Bilge Suction valve	Check condition / last time tested	
		Double bottom sounding pipes	Check functioning self closing valves	
		Piping Systems		
		General condition	Check for leakage and / or temporary repairs	
	8107.2	Condition of piping supports	Check for corroded, broken and / or missing supports	
	8108	General Service Air Systems		
	8108.1	Condition of air and oil drains	Check good working	
		Condition of pipe lines	Check for leakage and / or temporary repairs	
	8108.3	Condition of safety valves	Check free movement	
	8109	Chemicals		
	8109.1	Sufficient Personal Protecting Equipment available	Near storage place and users place	
	8109.2	Sufficient signboards available	Near storage place and users place	
	8109.3	Storage of chemicals according safety rules	According makers safety instructions	
		Electrical		
		Generator inspections during operation max. load		
	8110.2	Examination of cables without attachments	Cable supports bulkhead and deck penetrations	
	8110.3	Electrical equipments in acc. with danger zones	Zeners barriers etc.	
		Inert Gas Plant		
	8111.1	Inert Gas system fully operational		
		Condition of all instrumentation	Special O2 meter	
Ш		Condition of all alarms and trips	High and low level alarms etc.	
		Sewage Plant		
	8112.1	Sewage Plant fully operational	Alarms, level switches etc.	
		Position of valves correct	Check if the by-pass valves are closed	
		Fire Pumps		
		Position of firepump valves	Are instructions available for position of valves	
	8113.2	General check of emergency firepump	Position of Fuel valve, Content of fuel tank etc.	
	8114.3	Operating instructions of firepump and drive-unit	Clear instruction board available	
	8114	Emergency Electrical Stops		
		Emergency stops of general service pumps	Last time tested	
	8114.2	Emergency stops of steering gear pumps	Last time tested	
	8114.3	Emergency stops of fans	Last time tested	

	Green Award Visual Inspection - LPG Carrier			
Check Box	Norm item	GREEN AWARD	Inspection Focus	Remarks
		Machinery		
	8115	Quick Closing Valves		
		Condition of closing valve station	Check for clear instructions	
	8115.2	Condition of closing valves E.R.	Check for obstructions or other objects	
	8116	Gauge Glasses Class		
	8116.1	Condition of gauge glasses closing valves	Check proper working and if they are normal closed	
		Condition gauge glasses lub. oil tanks	Check proper working and if they are normal closed	
	8116.3	Condition gauge glasses chemical tanks	Check proper working and if they are normal closed	
	8116.4	Condition gauge glasses fuel tanks	Check proper working and if they are normal closed	
	8117	Ventilation		
	8117.1	Fire flaps in trunks engine room	Check markers open/close and proper working	
	8117.2	Fire flaps	Check proper working	
	8118	Exhaust gases of machinery		
		Emission of main engines	Content NOX en SOX	
	8200	Steering Gear		
	8201	SOLAS requirements		
	8201.1	Steering gear unit complies with SOLAS		
	8201.2	Steering gear room complies with SOLAS		
	8202.3	Steering gear unit - and room cleanliness	Check for hydraulic leaks, presence of water and / or oil in drip-trays	
	8203	Change over procedures		
	8203.1	Emergency steering gear change over procedures	Signs posted with instructions for emergency change-over	
	8203.2	Procedures for emergency change-over visible	Clearly visible near controls of steering gear unit	
	8204	Testing		
	8204.1	Emergency-steering tested recently	Check records in engine / deck logbook	
	8204.2	Steering Gear	Check records in engine / deck logbook. Testing before arrival and departure.	
	8205	Charging emergency header tank		
	8205.1	Emergency header tank fully charged	Tankers over 10.000 Gt must have fixed tank with sufficient capacity to recharge min. One unit	
	8205.2	Fixed storage tank installed		
	8206	Compass		
	8206.1	Compass present in steering gear room		
	8206.2	Compass clearly visible from control-station		
	8207	Bridge Communications		
	8207.1	Satisfactory communications with bridge		
	8207.2	Telephone available and working		
	8207.3	Sound powered telephone available and working		

	Green Award Visual Inspection - LPG Carrier			
Check Box	Norm item	GREEN AWARD	Inspection Focus	Remarks
	8200	Steering Gear		
	8207	Visibility of Rudder Angle Indicator		
		Rudder angle indicator present		
		Rudder angle indicator visible at steering position		
	8208	Access to Steering Gear		
	8208.1	Entrance door to steering gear room closed	Door to be kept closed at all times and not lashed or blocked in open position	
	8208.2	Access to steering gear unit unobstructed	Steering gear room should be uncluttered with easy access to all components of the system	
		Safety and protection measures fitted	Vessels > 10.000 GT should have railings around the steering gear and deck non-slip surface	
	8208.4	Bilge alarms	Alarms high level & high-high level in good condition	
	8300	Cargo / Ballast System		
	8301	Drawings / Diagrams in Cargo Control Room		
		All relevant drawings and diagrams available	Pipe Line diagrams, mimic diagrams etc should be available in CCR	
	8301.2	Drawings visible inside CCR	Drawings clearly visible and understandable for operation	
	8302	Functioning of Cargo / Ballast Pumps		
	8302.1	Is every separate pump working		
	8302.2	Cargo pumps with temperature sensors readout CCR		
	8302.3	Stripping pumps with temperature sensors readout CCR		
		Ballast pumps with temperature sensors readout CCR		
		Cargo pumps fitted with temperature trips		
	8302.6	Cargo pumps with sensors for vibration monitoring bearings		
		Is all equipment combined working	Malfunctioning often indicator	
		Functioning Pump Controls/Turbine Controls		
		Pump controls functioning	Speed sensor, suction meter,pressure meter, vibriation meter	
		Pump alarms functioning	Temp. of bearings and casing	
		Turbine trips functioning	Overspeed, backpressure, lub.oil pressure and bearing temp.	
		Regular tests conducted Tests recorded		<u> </u>
$\vdash$		1		<del> </del>
		Gauges and Tachometers		
$\vdash$	8304.1	Cargo / Ballast pump gauges operational Cargo / Ballast pump tachometers operational		
		Engine / Pump Room Seals		
$\vdash$	8305.1	Condition seals Cargo/Ballast pumps pumproom/ E.R.	Check deck penetration, oil level in deck seals	
$\vdash$		Condition seals Cargo/Ballast pumps / pump room	Check for leakage	
		Cargo Control Room Communications		
		Communication satisfactory	Communication between Cargo Control Room / Pump Room / Cargo Pump Turbines ( E.R. side )	
	8306.2	Communication operational		

	Green Award Visual Inspection - LPG Carrier			
Check Box	Norm item	GREEN AWARD	Inspection Focus	Remarks
	8300	Cargo / Ballast System		
		Meters / Displays Inside Pump Room Class		
		Suction and discharge pressure meters	Check for good working	
		Continuous monitoring of hydrocarbon gases	Check test dates	
		Thermometers of bearings / pump casing	Check for good working	
		Bilge alarms	Check for high level and high-high level	
		Electrical Equipment		
		Equipment installed explosion-proof	Light,control equipment, switches etc.	
		Ventilation and lighting interlocked	Ventialtion starts when lights switched on, failure of ventilation seperate of light-functioning	
		Condition of electrical safety barriers		
		Oil Discharge Monitoring Equipment		
		Oil discharge monitor	Check operational condition / calibration	
		Recorder	Check recent history output	
		Vapour system		
		Vapour lines and manifolds		
	8400	Structural		
	8401	Drawings		
	8401.1	Review of all relevant structural drawings	Overview structural design and scantlings	
	8402	Reports		
	8402.1	Classification reports	Survey reports with thickness readings, recommendations and conditions of class, repairs	
		State Authority reports	Survey reports, recommendations	
		Company Reports	Inspection reports, repair, maintenance and dry-dock reports by ship's staff and superintendents	
		Inspection guidelines	Guidelines on the means of access to structures for inspection and maintenance of oil tankers	
		Other reports	Vetting reports by chartering companies and independent surveyors	
	8403	External Hull		
	8403.1	Shell plating	Check for indents, cracks, corrosion, pitting, paint-condition, local rust and / or cargo stripes	
	8404	Cargo Tanks		
		Structural integrity	Deformations, cracks, leakages of bulkheads, stringers, webs, girders	
		Corrosion condition	Corrosion and / or corrosion pattern of structural design	
		Pipelines and valves	Condition pipes, supports, coupling, flanges, deformations and leakages	
	8404.5	Miscellaneous equipment	Condition cargo pumps, cargo control, tank cleaning / tank heating systems, access facilities	
		Ballast Tanks		
	8405.1	Structural integrity	Deformations, cracks, leakages of bulkheads, stringers, webs, girders	
		Corrosion condition	Corrosion and / or corrosion pattern of structural design	
		Corrosion protection system	Condition of coating and / or sacrificial anodes	
		Pipelines and valves	Condition pipes, supports, coupling, flanges, deformations and leakages	
	8405.5	Miscellaneous equipment	Condition ballast pumps, ballast control, access facilities	

	Green Award Visual Inspection - LPG Carrier			
Check Box	Norm item	GREN AWARD	Inspection Focus	Remarks
		Structural		
	8406	Void spaces / Cofferdams		
	8406.1	Structural integrity	Deformations, cracks, leakages of bulkheads, stringers, webs, girders	
		Corrosion condition	Corrosion and / or corrosion pattern of structural design	
		Corrosion protection system	Condition of coating and / or sacrificial anodes	
		Pipelines and valves	Condition pipes, supports, coupling, flanges, deformations and leakages	
		Miscellaneous equipment	Condition emergency pumps / controls, access facilities	
	8407	Main Deck & Fittings		
	8407.1	Deck plating - Deformations	May indicate problems from underneath, stiffeners or underneath deck-plating	
		Deck plating - Fractures	May indicate substantial corrosion and / or local stress areas	
		Deck plating - Damages	Caused by collisions and / or under-/overpressure cargo tanks	
		Deck plating - Corrosion	If substantial indicate pattern, density and locations	
		Tank entrances and deck openings	Condition check of covers and closing devices	
		Pipeline couplings, flanges, branches and supports	Condition check, deformation, cracks, corrosion, thightness	
	8407.7	Ventilation - pipes / ducts	Condition check of covers, closing devices, flame screens, floating locks	
		Inert Gas valves, non return valves, void spaces P/V valves, pressure relief valves, mast riser	Condition check	
	8407.9	P/V valves on every separate tank	Condition check and check double means for P/V	
	8407.10	Bunker connections fwd & aft at SB & PS cargo-manifold		
		Emergency stop at cargo manifold	Condition check	
		Permanent drip-trays on open deck where spills may occur		
		Are these drip-trays clean and properly closed		
	8407.14	Distance presentation flanges - ship's side > 4,6 mtr		
	8407.15	Manifold spill-tank length extending beyond bunker connection		
		Manifold spill-tank 1,8 mtr. in width and reaching 1,2 mtr beyond reducer presentation flanges		
	8407.17	Manifold spill-tank minimum depth of 300 mm		
		Suitable means provided for draining manifold spill-tank		
		Manifold spill-tank clean and empty		†
		Manifold spill-tank well maintained		
		Continuous deckedge fishplate height / deck scupper closing devices		
	8407.22	Emergency pump fixed or portable		1
		Dropvalves from spill-tanks to sloptanks on deck		
	8407.24	Arrangements for continuous draining of rain water		
		Hose handling, stores handling	Check certificates and working order	

	Green Award Visual Inspection - LPG Carrier			
Check Box	Norm item	GREEN AWARD	Inspection Focus	Remarks
		Structural		
	8407.26	Sufficient tank-openings for portable COW to reach all shadow areas	In accordance with shadow diagram class	
	8407.27	Safe access to bow and main deck railing	Check condition and compliance new rules	
	8407.28	Adequate supports installed abeam of manifold for cargo-hoses	Fitting of cargo hose rail	
	8407.29	Bunker and oil tank derating pipes	Check flame screens and coamings	
	8410	Accomodation & Machinery Spaces		
	8410.1	Structural integrity	General condition, damages & defects	
	8410.2	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	
	8410.5	Safety equipment	Condition check CO2, Halon system, extinguishers, fire hoses, alarms etc.	
	8410.6	Certificates for safety equipment		
	8411	Mooring equipment		
	8411.1	Mooring lines	Condition mooring lines	
	8411.2	Winches	Foundation bolts firm, casing crack-, corrosion-free, no leakages and save-all	
	8411.3	Condition winch-brakes	Check last test report and thickness linings	
	8412	Anchoring equipment		
	8412.1	Anchors, anchor shackles and chain	Wear, corrosion, clearances inside hawser pipe	
	8412.2	Anchor winch and associated gear	Foundation, no leakages, condition of brakes, hinges and hinge plates	
	8412.3	Anchor securing	Condition and workable	
	8413	Emergency towing system		
	8413.1	Condition emergency towing equipment aft ship.	Check wires etc.	
		Condition emergency towing equipment fore ship		

	Green Award Visual Inspection - LPG Carrier			
Check Box	Norm item	GREEN AWARD	Inspection Focus	Remarks
	8500	Safety / Rescue		
	8501	Safety equipment		
	8501.1	Certificates	Check certificates, reports and safety drills	
	8501.2	Safety plan	Check available and clearly visible	
	8502	Rescue equipment		
	8502.1	Life boat + davits	Check condition (incl. Kathodic wear) and working order	
	8502.2	Rescue boat + davits	Check condition (incl. Kathodic wear) and working order	
	8502.3	Life rafts + release system	Check condition (incl. Kathodic wear) and working order	
	8502.4	Accommodation ladders, pilot ladders and gangway	Check condition and working order	
	8502.6	Life jackets	Check condition and working order	
	8502.7	Life buoys	Check condition (incl. Kathodic wear) and working order	
		Fire fighting		
		CO2 / Dry powder system	Pressure gauges / indicators on bottles / pipelines / nozzles	
		Foamtank	Content / Filling	
		Foam monitors on deck	Check condition and working order	
		Fire control plans	Check available and clearly visible	
		Portable fire extinguishers	Check ready for use, last check date	
		Fireman's outfit	Check ready for use, easy accessable	
	8503.7	Breathing Apparatus charging compressor	Check ready for use, easy 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	
		Fire lines	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 front	Check condition and working order separate fire fighting system	
		Escape routes		
		Free access	Check free access without obstructions	
		Indicators	Check clear markers / positioning	
	8504.3	Emergency lighting	Check clear markers / positioning	
		Marine Spill Response Equipment		
		Marine Pollution Emergency Plan	Check availability	
	8505.2	Emergency equipment	Check content and working order	