

## Green Award Foundation

P.O. Box 23107 | 3001 KC ROTTERDAM | The Netherlands | [www.greenaward.org](http://www.greenaward.org)

# Annex 3c: Green Award Requirements (LNG carrier) Version 2018

Checklists for Office Audits and Ship Surveys

Effective as of 1 January 2018



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



### LNG carriers

#### Table of contents

| Appendix | Subject  | Doc. Nr. | Effective date | Total pages |
|----------|--|----------|----------------|-------------|
| 1        | Checklist <b>Basic</b> Criteria - <u>Office audit</u> - LNG carrier          | LMC-06   | 01/01/2018     | 3           |
| 2        | Checklist <b>Ranking</b> Criteria - <u>Office audit</u> - LNG carrier        | LMC-07   | 01/01/2018     | 9           |
|          | Checklist <b>Ranking</b> Criteria - <u>Office audit</u> - Total Score Review |          | 01/01/2018     | 33          |
| 3        | Checklist <b>Basic</b> Criteria - <u>Ship survey</u> - LNG carrier           | LMC-08   | 01/01/2018     | 35          |
| 4        | Checklist <b>Ranking</b> Criteria - <u>Ship survey</u> - LNG carrier         | LMC-09   | 01/01/2018     | 41          |
|          | Checklist <b>Ranking</b> Criteria - <u>Ship survey</u> - Total Score Review  |          | 01/01/2018     | 60          |
| 5        | Checklist <b>Visual</b> Inspection - LNG Steam Turbine                       | LMC-10   | 01/01/2018     | 62          |
| 6        | Checklist <b>Visual</b> Inspection - LNG Motor with Reliquefaction           | LMC-10   | 01/01/2018     | 70          |

#### Legend for Checklists

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

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


#### Revision codes


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


## APPENDIX 1


CHECKLIST - BASIC CRITERIA - OFFICE AUDIT -  
LNG CARRIER


(LMC-06)

| CHECKLIST - BASIC CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2018 |   |   |              |                            |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |  |
|--|---|---|--------------|----------------------------|---------------|--------------|-----------------|--------------|----------------|--------------|-----------------|--------------|-------------------|--------------|------------------|--------------|-----------------|--------------|----------|--------------|---------------------|--------------|----------------|--|--|
| Revision Code  | Norm item   |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h2 style="margin: 0;">BASIC</h2> <h3 style="margin: 0;">Office - LNG</h3> </div> | GENERAL MAN. | Doc. & Impl.               | QUALITY DEPT. | Doc. & Impl. | TECHNICAL DEPT. | Doc. & Impl. | NAUTICAL DEPT. | Doc. & Impl. | PERSONNEL DEPT. | Doc. & Impl. | OPER./CHART DEPT. | Doc. & Impl. | PURCHASING DEPT. | Doc. & Impl. | FINANCIAL DEPT. | Doc. & Impl. | IT DEPT. | Doc. & Impl. | INS - / CLAIM DEPT. | Doc. & Impl. | NOT APPLICABLE |  |  |
|  |   |   | <b>100</b>   | <b>MANAGEMENT ELEMENTS</b> |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |  |
| <b>101</b>   | <b>GENERAL</b>  |   |              | o                          |               | o            |                 | o            |                | o            |                 | o            |                   | o            |                  |              |                 |              | o        |              | o                   |              |                |  |  |
| 101.1  | Are the Management System (MS) Manuals maintained and updated?  |   |              |                            |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |  |
| <b>102</b>   | <b>SAFETY AND ENVIRONMENTAL PROTECTION POLICY</b>   |   |              | o                          |               | o            |                 | o            |                | o            |                 | o            |                   | o            |                  |              |                 |              |          |              |                     |              |                |  |  |
| 102.1  | Is a company policy concerning safety and the environment and which is signed by the Man. Dir., available?  |   |              |                            |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |  |
| 102.2  | Are objectives concerning safety and the environment described?   |   |              |                            |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |  |
| 102.3  | Is this policy maintained and implemented at all shore-based levels as well as all ship-based levels ?  |   |              |                            |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |  |
| <b>103</b>   | <b>COMPANY RESPONSIBILITIES AND AUTHORITY</b>   |   |              | o                          |               | o            |                 | o            |                | o            |                 | o            |                   | o            |                  |              |                 |              | o        |              | o                   |              |                |  |  |
| 103.1  | Is the entity who is responsible for the operations of the ship clearly defined ? (Owner or entity)   |   |              |                            |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |  |
| 103.2  | Are shore-ship communications, defined levels of authority and lines of communication documented and working effectively ?  |   |              |                            |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |  |
| 103.3  | Are responsibilities and authorities of all office personnel clearly defined ?  |   |              |                            |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |  |
| 103.4  | Is the designated person provided with shore-based support and adequate resources?  |   |              |                            |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |  |
| <b>104</b>   | <b>DESIGNATED PERSONS</b>   |   | o            |                            | o             |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |  |
| 104.1  | Is/are (a) designated person(s) assigned in the office?   |   |              |                            |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |  |
| 104.3  | Is objective evidence available that the safety and environmental aspects of the operation of each ship is monitored and that the required adequate resources and shore-based support is applied? |   |              |                            |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |  |
| <b>105</b>   | <b>MASTER'S RESPONSIBILITY AND AUTHORITY</b>  |   |              | o                          |               | o            |                 | o            |                | o            |                 | o            |                   | o            |                  |              |                 |              |          |              |                     | o            |                |  |  |
| 105.1  | Is the responsibility of the master clearly defined and documented?   |   |              |                            |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |  |
| 105.6  | Does the company have the overriding authority of the master clearly defined? (ISM Code 2002 5.2)   |   |              |                            |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |  |
| 105.7  | Are master's reviews reported and evaluated?  |   |              |                            |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |  |

| CHECKLIST - BASIC CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2018 |            |   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|--|------------|---|--------------|--------------|---|--------------|-----------------|--------------|----------------|--------------|-----------------|--------------|-------------------|--------------|------------------|--------------|-----------------|--------------|----------|--------------|---------------------|--------------|----------------|--|
| Revision Code  | Norm item  |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h2 style="margin: 0;">BASIC</h2> <h3 style="margin: 0;">Office - LNG</h3> </div> | GENERAL MAN. | Doc. & Impl. | QUALITY DEPT.                           | Doc. & Impl. | TECHNICAL DEPT. | Doc. & Impl. | NAUTICAL DEPT. | Doc. & Impl. | PERSONNEL DEPT. | Doc. & Impl. | OPER./CHART DEPT. | Doc. & Impl. | PURCHASING DEPT. | Doc. & Impl. | FINANCIAL DEPT. | Doc. & Impl. | IT DEPT. | Doc. & Impl. | INS - / CLAIM DEPT. | Doc. & Impl. | NOT APPLICABLE |  |
|  |            |   |              | <b>106</b>   | <b>RESOURCES AND PERSONNEL AND STCW</b> |              |                 | ●            |                |              |                 |              |                   | ●            |                  |              |                 |              |          |              |                     |              |                |  |
|  | 106.1      | Does the company have a procedure to verify the integrity of the sea staff certification and medical fitness before being assigned to the ship?   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | 106.2      | Have the owners/managers established/documented policies concerning shore/ship personnel?   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | 106.3      | Has the level of competency been defined and documented for office personnel performing functions pertinent to safety and the environment?  |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | 106.4      | Do arrangements include a provision for masters and officers to receive an adequate introduction and continuous update of the company's safety and environmental system?  |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | 106.5      | Do arrangements include training and an introduction to the quality system for the executive management ?   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | 106.6      | Do office personnel receive training/courses with regard to the ISM Code and are they consistent with the MS manuals?   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | 106.7      | Are records of this training/courses available?   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | 106.8      | Are internal audits held on board the ships?  |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | 106.9      | Is standard composition of crew documented in company policy?   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | 106.10     | Is personnel promotion policy (ship & office) documented in company procedures?   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | 106.11     | Is the working language between the office and the vessels defined?   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | 106.12     | Are all senior and deck officers conversant with the English language for maritime communication?   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | 106.13     | Are operational instructions on board written in a language understood by officers and shipboard personnel?   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | 106.14     | Is the working language monitored and checked by the ship's staff and verified during internal audits?  |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | 106.17     | Is the Master of a vessel fully conversant with the Company's Management Systems?   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | <b>107</b> | <b>DEVELOPMENT OF PLANS FOR SHIPBOARD OPERATIONS</b>  |              |              | ●                                       |              | ●               |              | ●              |              | ●               |              | ●                 |              | ●                |              |                 |              |          |              | ●                   |              |                |  |
|  | 107.1      | Does the company have procedures for the preparation of plans and instructions for key shipboard operations concerning safety of the ship and prevention of pollution?  |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | 107.3      | Are tasks, qualifications and responsibilities defined in the manuals and in the job descriptions?  |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | <b>108</b> | <b>EMERGENCY PREPAREDNESS</b>   | ●            |              | ●                                       |              | ●               |              | ●              |              | ●               |              | ●                 |              | ●                |              |                 |              |          | ●            |                     | ●            |                |  |
|  | 108.1      | Does the system cover the arrangements needed to ensure that the company, day and night, is prepared to respond effectively to hazards, accidents or emergencies involving their ships?   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | 108.2      | Are tasks, qualifications and responsibilities described in the manuals and in the job descriptions?  |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | 108.3      | Is communication with media included in the emergency procedures?   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|  | 108.4      | Are procedures for an "Emergency room" in the office defined?   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |

| CHECKLIST - BASIC CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2018 |  |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
|--|--|---|--------------|---|---------------|--------------|-----------------|--------------|----------------|--------------|-----------------|--------------|-------------------|--------------|------------------|--------------|-----------------|--------------|----------|--------------|--------------------|--------------|----------------|
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|  |  |   | 109          | <b>REPORTS AND ANALYSES OF NON-CONFORMITIES, ACCIDENTS AND HAZARDOUS OCCURENCES</b> |               |              | o               |              | o              |              | o               |              | o                 |              | o                |              | o               |              |          |              |                    |              |                |
| 109.1  | Are safety and environmental inspections carried out, documented and reported?   |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 109.2  | Does the company have instructions/procedures for the reporting of non-conformities/ near misses?  |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 109.3  | Are non-conformities, accidents and hazardous occurrences reported to the office?  |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 109.4  | Are corrective and/or preventive actions taken ?   |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 109.5  | Does the company have objective evidence to show their support of the shipboard personnel in reporting of non-conformities / near misses?                    |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 110  | <b>MAINTENANCE OF THE SHIP AND EQUIPMENT</b>   |   |              | o   |               | o            |                 | o            |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 110.1  | Are ship inspections held at defined intervals? (minimum of twice a year or equivalent)  |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 110.2  | Are non-conformities reported including their possible cause?  |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 110.3  | Is appropriate corrective action taken?  |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 110.4  | Are records of these activities maintained?  |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 110.5  | Does the MS require ship-critical equipment and systems to be identified?  |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 110.6  | Does the MS provide for specific measures aimed at promoting the reliability of ship-critical equipment and systems?   |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 111  | <b>DOCUMENTATION</b>   |   |              | o   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 111.1  | Does the company have procedures to control documents and data relevant to the Man.System?   |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 111.2  | Are valid documents available at all relevant locations?   |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 111.3  | Are changes to documents reviewed and approved by authorised personnel?  |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 111.4  | Are obsolete documents removed promptly?   |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 112  | <b>COMPANY VERIFICATION, REVIEW AND EVALUATION</b>   |   | o            |   | o             |              | o               |              | o              |              | o               |              | o                 |              | o                |              | o               |              | o        |              | o                  |              |                |
| 112.1  | Are internal audits carried out to verify whether safety and pollution-prevention activities, and other procedures, comply with the Management System (MS)?  |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 112.2  | Does the company periodically evaluate the efficiency of the MS and review the MS, in accordance with procedures established by the company, when necessary? |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 112.3  | Is a management review done?   |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 112.4  | Are the results of audits and reviews brought to the attention of all personnel having responsibility in the area involved?                                  |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |
| 112.5  | Have the management personnel, responsible for the area involved, taken timely corrective actions on deficiencies found?                                     |   |              |   |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |

| CHECKLIST - BASIC CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2018 |            |  |              |              |                     |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                   |              |                |  |
|--|------------|--|--------------|--------------|---------------------|--------------|-----------------|--------------|----------------|--------------|-----------------|--------------|-------------------|--------------|------------------|--------------|-----------------|--------------|----------|--------------|-------------------|--------------|----------------|--|
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|  |            |  |              |              | <b>IMO ELEMENTS</b> |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                   |              |                |  |
|  | <b>200</b> | <b>SOLAS 1974</b>  |              |              |                     |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                   |              |                |  |
|  | <b>201</b> | <b>SOLAS, General Provisions</b>   |              |              |                     |              | o               |              | o              |              |                 |              |                   |              |                  |              |                 |              |          |              |                   |              |                |  |
|  | 201.1      | Compliance with General Provisions   |              |              |                     |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                   |              |                |  |
|  | 201.2      | Compliance with IGC Code   |              |              |                     |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                   |              |                |  |
|  | <b>212</b> | <b>SOLAS Certificates</b>  |              |              |                     |              | o               |              | o              |              |                 |              |                   |              |                  |              |                 |              |          |              |                   |              |                |  |
|  | 212.1      | Is an overview of the valid certificates per ship available and is the overview updated?   |              |              |                     |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                   |              |                |  |
|  | <b>217</b> | <b>Safety of Navigation / SOLAS chart carriage requirements</b>  |              |              |                     |              |                 |              | o              |              |                 |              | o                 |              |                  |              |                 |              |          |              |                   |              |                |  |
| M  |            | <b>ECDIS (Compulsory carriage of ECDIS)</b>  |              |              |                     |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                   |              |                |  |
| M  | 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)?  |              |              |                     |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                   |              |                |  |
| M  | 217.3      | Is it a company policy that an acceptable back-up arrangement is in place? (an independent type-approved ECDIS with an independent position fixing system using official Electronic Navigational Charts (or a combination of official ENCs and Raster Navigational Charts) or a full / reduced folio of up-to-date paper charts, as relevant to the ship's voyage) |              |              |                     |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                   |              |                |  |
| M  |            | <b>Training &amp; Onboard Use of ECDIS (Compulsory carriage of ECDIS)</b>  |              |              |                     |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                   |              |                |  |
| M  | 217.5      | Is it a company policy that all officers and masters that use ECDIS for primary navigation are to complete generic training based on IMO model course 1.27 and, in addition, are familiarized with the ECDIS unit(s) installed onboard?  |              |              |                     |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                   |              |                |  |
| M  | 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) ?  |              |              |                     |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                   |              |                |  |
| N  | <b>218</b> | <b>Noise Levels On Board Ships</b>   |              |              |                     |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                   |              |                |  |
|  |            | <i>(Only applicable to new ships of a gross tonnage of 1,600 and above.)</i>   |              |              |                     |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                   |              |                |  |
| N  | 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)?  |              |              |                     |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                   |              |                |  |
| N  | 218.2      | Is it company policy to identify areas of the vessels based on the noise levels and to place relevant visible warning notices at the entrance to these areas? (IMO noise symbols)  |              |              |                     |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                   |              |                |  |

| CHECKLIST - BASIC CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2018 |  |   |              |                     |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
|--|--|---|--------------|---------------------|---------------|--------------|-----------------|--------------|----------------|--------------|-----------------|--------------|-------------------|--------------|------------------|--------------|-----------------|--------------|----------|--------------|---------------------|--------------|----------------|--|
| Revision Code  | Norm item  |  <div style="border: 1px solid black; padding: 10px; text-align: center; margin-top: 10px;"> <h2 style="margin: 0;">BASIC</h2> <h3 style="margin: 0;">Office - LNG</h3> </div> | GENERAL MAN. | Doc. & Impl.        | QUALITY DEPT. | Doc. & Impl. | TECHNICAL DEPT. | Doc. & Impl. | NAUTICAL DEPT. | Doc. & Impl. | PERSONNEL DEPT. | Doc. & Impl. | OPER./CHART DEPT. | Doc. & Impl. | PURCHASING DEPT. | Doc. & Impl. | FINANCIAL DEPT. | Doc. & Impl. | IT DEPT. | Doc. & Impl. | INS - / CLAIM DEPT. | Doc. & Impl. | NOT APPLICABLE |  |
|  |  |   | <b>300</b>   | <b>MARPOL 73/78</b> |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
| <b>301</b>   | <b>Provisions concerning Reports on Incidents Involving Harmful Substances (Protocol 1)</b>  |   |              | o                   |               |              |                 |              | o              |              |                 |              | o                 |              |                  |              |                 |              |          |              |                     |              |                |  |
| <b>301.1</b>   | Does the company have a procedure in order to report an incident to the nearest coastal state in the event of the ship being abandoned or if a report from the ship is incomplete or unobtainable? |   |              |                     |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
| <b>310</b>   | <b>Prevention of pollution by oil</b>  |   |              | o                   |               |              |                 |              | o              |              |                 |              | o                 |              |                  |              |                 |              |          |              |                     |              |                |  |
| <b>310.1</b>   | Is a shipboard oil pollution emergency plan developed?   |   |              |                     |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
| <b>310.3</b>   | Is training and testing of the oil pollution emergency plan done?  |   |              |                     |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
| <b>310.4</b>   | Is the plan reviewed? (periodic and event review)  |   |              |                     |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
| <b>310.5</b>   | Is an updated list of persons to be contacted available? (coastal States, port contacts, company interest contacts)  |   |              |                     |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
| <b>310.6</b>   | Is office personnel familiar with the shipboard oil pollution emergency plan?  |   |              |                     |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
| <b>310.7</b>   | Does the company have a policy concerning the retention and disposal of oil residues (sludge)?   |   |              |                     |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
| <b>350</b>   | <b>Prevention of pollution by garbage</b>  |   |              | o                   |               | o            |                 | o            |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
| <b>M</b>   | <b>350.2</b>   | Has the company developed a ship specific garbage management plan taking into account the number of people onboard, size/type and the trade area of the ship?   |              |                     |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |
| <b>N</b>   | <b>350.4</b>   | Is it a company policy to designate a person responsible for execution of the garbage management onboard?   |              |                     |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |  |





## APPENDIX 2

CHECKLIST - RANKING CRITERIA - OFFICE AUDIT -  
LNG CARRIER

(LMC-07)

**CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2018**


| Revision Code | Norm Item   |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h1 style="margin: 0;">RANKING</h1> <h2 style="margin: 0;">Office - LNG</h2> </div>      | GENERAL MAN.   | Doc. & Impl. | QUALITY DEPT.  | Doc. & Impl. | TECHNICAL DEPT. | Doc. & Impl. | NAUTICAL DEPT. | Doc. & Impl. | PERSONNEL DEPT. | Doc. & Impl. | OPER./CHART DEPT. | Doc. & Impl. | PURCHASING DEPT. | Doc. & Impl. | FINANCIAL DEPT. | Doc. & Impl. | IT DEPT. | Doc. & Impl. | INS - / CLAIM DEPT. | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |    |
|---------------|-------------|--|--|--------------|----------------|--------------|-----------------|--------------|----------------|--------------|-----------------|--------------|-------------------|--------------|------------------|--------------|-----------------|--------------|----------|--------------|---------------------|--------------|----------------|---------------|--------------------|----|
|               |             |  |  | <b>1000</b>  | <b>GENERAL</b> |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |
| M             | <b>1100</b> | <b>Data Monitoring and Recording Equipment</b>   | 0  |              | 0              |              | 0               |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |
|               | 1100.1      | Is it company policy that the vessels constructed before 01/07/2002 are equipped with a "full" VDR?  |  |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
| M/RR          | 1100.2      | Is it a company policy that the vessels are equipped with a CCTV system, which has cameras located in <u>open deck spaces</u> ?  |  |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |
| N             | 1100.6      | Is it a company policy that the vessels are equipped with a CCTV system, which has cameras located in <u>engine room</u> ?   |  |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |
| N             | 1100.7      | Is it a company policy that the vessels are equipped with a CCTV system, which has cameras located in <u>cargo spaces</u> ?  |  |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |
|               | 1100.3      | Is it company policy that the CCTV footage is recorded by VDR or backed-up by alternative means (minimum of 12 hours)?   |  |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
|               |             |  | <b>Total score</b>   |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              | 0              | 35            |                    |    |
|               |             |  | <b>Minimum ranking score required for element 1100 = 0</b>   |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |
|               | <b>1200</b> | <b>Enclosed Space Entry &amp; Hot Work</b>   |  |              |                |              | 0               |              | 0              |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |
|               | 1200.1      | Is there an Enclosed Space Entry and Hot Work permit to work system, taking account of IMO and industry guidelines and where relevant local port / terminal requirements?  |  |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
|               | 1200.6      | Is company approval of the Hot Work permit required before work can begin?   |  |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
|               | 1200.7      | Is an evaluation of the Hot Work permit made (permit shows the appropriate safety precautions relevant to the location of work)?   |  |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 20 |
|               | 1200.12     | Is the HSQ Manager designated to authorise hot work?   |  |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 20 |
|               | 1200.2      | Is crew on board provided with suitable personal protective equipment and suitable equipment for testing the atmosphere of an enclosed space? (e.g. breathing apparatus, protective clothing and approved + calibrated atmosphere testing equipment) |  |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |
|               | 1200.8      | Are all personnel entering an enclosed space provided with a personal gas detector which can measure HC, oxygen and relevant toxic vapours?  |  |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
|               | 1200.9      | Is it company policy that a safety meeting, attended by all personnel involved, is held prior to entering the space or commencement of hot work in order to review procedures and PPE (including those specific for the intended work) ?             |  |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
|               | 1200.10     | Does the company require a responsible officer to be designated for all aspects of the operation?  |  |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |
|               | 1200.3      | Is ship's crew trained and drilled periodically according to enclosed space entry procedures ?   |  |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |
|               | 1200.4      | Does training also include rescue and first aid?   |  |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |
|               | 1200.5      | Is there a procedure to identify the operational spaces (e.g. side-passages or compressor rooms) which need to be subjected to enclosed space entry procedures?  |  |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
|               |             |  | <b>Total score</b>   |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              | 0              | 110           |                    |    |
|               |             |  | <b>Minimum ranking score required for element 1200 = 110</b> |              |                |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |

| CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2018 |   |   |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |
|--|---|---|--------------|--|---------------|--------------|-----------------|--------------|----------------|--------------|-----------------|--------------|-------------------|--------------|------------------|--------------|-----------------|--------------|----------|--------------|---------------------|--------------|----------------|---------------|--------------------|----|
| Revision Code  | Norm Item   |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h2 style="margin: 0;">RANKING</h2> <h3 style="margin: 0;">Office - LNG</h3> </div> | GENERAL MAN. | Doc. & Impl.   | QUALITY DEPT. | Doc. & Impl. | TECHNICAL DEPT. | Doc. & Impl. | NAUTICAL DEPT. | Doc. & Impl. | PERSONNEL DEPT. | Doc. & Impl. | OPER./CHART DEPT. | Doc. & Impl. | PURCHASING DEPT. | Doc. & Impl. | FINANCIAL DEPT. | Doc. & Impl. | IT DEPT. | Doc. & Impl. | INS - / CLAIM DEPT. | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |    |
|  |   |   | 1300         | <b>Compressor for the refilling of air cylinders for breathing apparatus or Alternative</b> , Additional Green Award requirement |               |              |                 |              |                | 0            |                 | 0            |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |
| 1300.1   | Is it company policy that the vessels have a compressor for the refilling of air cylinders for breathing apparatus? |   |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 20 |
| 1300.2   | <b>Alternative to 1300.1:</b> sufficient number of air cylinders for the sole purpose of safety drills.             |   |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
| <b>Total score</b>   |   |   |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              | 0              | 20            |                    |    |
| <b>Minimum ranking score required for element 1300 = 10</b>              |   |   |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |
| 1400   | <b>Control of drugs &amp; alcohol onboard</b>   |   |              |  |               |              |                 |              |                |              | 0               |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |
| M/RR   | 1400.1  | As part of the Drug & Alcohol policy, does the company have a system which ensures that every current crew member is tested for drugs and alcohol in an unannounced way at any time in the last 12 months by means of a 3rd party?              |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 15 |
| RR   | 1400.2  | Are crew members subject to unannounced alcohol testing onboard as initiated by the office?   |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 15 |
| <b>Total score</b>   |   |   |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              | 0              | 30            |                    |    |
| <b>Minimum ranking score required for element 1400 = 30</b>              |   |   |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |
| 1500   | <b>Emergency Response System</b>  |   |              |  |               |              |                 |              | 0              |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |
|  | 1500.1  | Is there a policy for implementation of an ERS for the LNG fleet? (an internal response system or an external service from an IACS class member)  |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
|  | 1500.2  | Are documents, procedures and instructions available?   |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
|  | 1500.3  | Are at least two of the emergency response team (ERT) members familiar with the ERS procedures?   |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
|  | 1500.4  | Are company vessels in receipt of an evaluation report of an annual drill between company, ERS service provider (class) and a company vessel ?  |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
|  | 1500.5  | Is an annual ERT drill performed at the office which includes participation by the ERS service provider (class) and one company vessel ?  |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 15 |
|  | 1500.9  | Is an updated list of national & local authorities, as required in the SOPEP & the emergency response plan, available in the office ?   |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
|  | 1500.10   | Do relevant ERT member(s) participate in an ERS training course as provided by the ERS service provider (class) ?   |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
| <b>Total score</b>   |   |   |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              | 0              | 75            |                    |    |
| <b>Minimum ranking score required for element 1500 = 55</b>              |   |   |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |


**CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2018**


| Revision Code | Norm Item     |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h1 style="margin: 0;">RANKING</h1> <h2 style="margin: 0;">Office - LNG</h2> </div>   | GENERAL MAN.  | Doc. & Impl. | QUALITY DEPT.   | Doc. & Impl. | TECHNICAL DEPT. | Doc. & Impl. | NAUTICAL DEPT. | Doc. & Impl. | PERSONNEL DEPT. | Doc. & Impl. | OPER/CHART DEPT. | Doc. & Impl. | PURCHASING DEPT. | Doc. & Impl. | FINANCIAL DEPT. | Doc. & Impl. | IT DEPT. | Doc. & Impl. | INS - / CLAIM DEPT. | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |    |
|---------------|---------------|---|---|--------------|---|--------------|-----------------|--------------|----------------|--------------|-----------------|--------------|------------------|--------------|------------------|--------------|-----------------|--------------|----------|--------------|---------------------|--------------|----------------|---------------|--------------------|----|
|               |               |   |   | <b>1600</b>  | <b>Computer Systems, Networks, Data Security and Training.</b> GA requirement |              |                 | 0            |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     | 0            |                |               |                    |    |
|               | <b>1600.1</b> | Are arrangements for shore and vessel systems documented ? (configuration scheme)   |   |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
|               | <b>1600.2</b> | Are adequate system back-up's for office administrative PC systems made (where applicable) and are procedures for this documented ?   |   |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |
|               | <b>1600.7</b> | Is there a policy that system back-ups for vessel computer-based systems are made (where applicable)?   |   |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |
|               | <b>1600.8</b> | Is there a policy that system back-ups for vessel administrative PC systems are made?   |   |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |
|               | <b>1600.3</b> | Is training provided at a level required to effectively operate and maintain the system and cover normal, abnormal and emergency conditions?  |   |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
|               | <b>1600.4</b> | Is the internal audit scheme applicable to the IT department?   |   |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
|               | <b>1600.5</b> | Are computer systems, in relation to IMO MSC/Circ.891, certified by a recognised organisation?  |   |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
|               | <b>1600.6</b> | Is a system administrator designated for administrative PC systems in the office ?  |   |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
|               |               |   | <b>Total score</b>  |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              | 0              | 65            |                    |    |
|               |               |   | <b>Minimum ranking score required for element 1600 = 40</b> |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |
| N             | <b>1700</b>   | <b>Noise and Vibration Management</b>   |   |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |
|               |               | <b>Noise/Vibration Monitoring and Measures</b>  |   |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |
| N             | <b>1700.1</b> | Is it company policy to verify the noise survey report every 5 years?   |   |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 15 |
| N             | <b>1700.2</b> | 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  |
| N             | <b>1700.3</b> | Is it company policy to periodically inspect the noise and vibration of all machinery equipment and rectify any abnormalities?  |   |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |
| N             | <b>1700.4</b> | Is it company policy to take appropriate measures in order to protect the crew from cargo handling equipment noise if it exceeds 85db(a) (by taking into account technical solutions and/or exposure limits)?   |   |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
|               |               | <b>Noise Mitigation and Health Hazards</b>  |   |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |
| N             | <b>1700.5</b> | Does the SMS include the following?<br>1.Hearing protection;<br>2.Exposure limits;<br>3.Training regarding noise and health hazards.  |   |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |
| N             | <b>1700.6</b> | Does the company provide the crew with a hearing conservation programme which includes the following:<br>1.Hazards of high and long duration of noise exposure;<br>2.Maintenance of audiometric test records;<br>3.Periodic analysis of records and hearing acuity of individuals with high hearing loss. |   |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |
| N             | <b>1700.7</b> | 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 |
| N             | <b>1700.8</b> | Is it company policy to determine the noise exposure level of each rating/officer by taking into account the job profile, time spent by each crew member in different work spaces? (ISO 9612:2009 procedure)  |   |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
|               |               |   | <b>Total score</b>  |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              | 0              | 65            |                    |    |
|               |               |   | <b>Minimum ranking score required for element 1700 = 25</b> |              |   |              |                 |              |                |              |                 |              |                  |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |


**CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2018**

| Revision Code   | Norm Item                             |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h1 style="margin: 0;">RANKING</h1> <h2 style="margin: 0;">Office - LNG</h2> </div>  | GENERAL MAN. | Doc. & Impl. | QUALITY DEPT. | Doc. & Impl. | TECHNICAL DEPT. | Doc. & Impl. | NAUTICAL DEPT. | Doc. & Impl. | PERSONNEL DEPT. | Doc. & Impl. | OPER./CHART DEPT. | Doc. & Impl. | PURCHASING DEPT. | Doc. & Impl. | FINANCIAL DEPT. | Doc. & Impl. | IT DEPT. | Doc. & Impl. | INS. / CLAIM DEPT. | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |    |
|---|---------------------------------------|--|--------------|--------------|---------------|--------------|-----------------|--------------|----------------|--------------|-----------------|--------------|-------------------|--------------|------------------|--------------|-----------------|--------------|----------|--------------|--------------------|--------------|----------------|---------------|--------------------|----|
|   |                                       |  |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               |                    |    |
| N   | 1710                                  | <b>Underwater Noise and Vibration Management</b>   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               |                    |    |
| N   | 1710.1                                | Is it company practice to design a newbuild ship in such a manner to attenuate/reduce underwater noise?  |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
| N   | 1710.2                                | Does the company take any of the following measures to reduce underwater noise and vibration:<br>1.Installation of state of art propellers (With reduced cavitation);<br>2.Wake conditioning devices;<br>3.Installation of air injection propeller;<br>4.Vibration isolators mounted on the diesel generators? |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
| N   | 1710.3                                | Does the company take any additional maintenance routines (e.g. polishing/coating) to reduce cavitation from the propeller?  |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 5  |
| N   | 1710.4                                | Does the company opt for re-routing or slow steaming where possible and practicable to protect whale sensitive areas?  |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 5  |
| <b>Total score</b>  |                                       |  |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              | 0              | 30            |                    |    |
| <b>Minimum ranking score required for element 1710 = 0</b>  |                                       |  |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               |                    |    |
| <b>2000</b>   | <b>NAVIGATION / BRIDGE OPERATIONS</b> |  |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               |                    |    |
| <b>2100</b>   | <b>Navigation</b>                     |  |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               |                    |    |
| M   | 2100.6                                | Does the company have a contract for automatic supply of new hydrographic publications?  |              |              |               |              |                 |              | 0              |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
| M   | 2100.7                                | Does the company have a contract for electronic update of hydrographic publications? (eg. Temporary and Preliminary NtM)   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
| M   | 2100.8                                | Is it a company policy to include navigational equipment in electronic Planned Maintenance System?   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
|   | 2100.9                                | Are masters entitled to use non-compulsory pilot services? (must be stated in a company procedure)   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
| M   | 2100.12                               | Is the company aware of the vessel's critical areas transiting?  |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
|   | 2100.13                               | Does the company use weather routing services for ships on long haul voyages?  |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
| RN/M  | 2100.18                               | Is it a company policy to enroll the vessels in a meteorological & oceanographic service in a form of a software application?  |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
| N   | 2100.19                               | <b>Alternative to 2100.18:</b> Do the vessels have a capability to receive comprehensive weather information from the office or from coastal stations / platforms?   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 5  |
|   | 2100.14                               | Does the company have instructions for navigating in sensitive areas? (IMO SN/Circulars)   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
| N   | 2100.15                               | Is it a company policy to equip vessels with the multi constellation GNSS receivers?   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
| N   | 2100.16                               | Is it a company policy to equip vessels with the eLoran receivers?   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
| N   | 2100.17                               | Is it a company policy that the position for all stages of voyage is compared with a different method of positioning than GPS?   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 20 |
| <b>Total score</b>  |                                       |  |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              | 0              | 120           |                    |    |
| <b>Minimum ranking score required for element 2100 = 50</b> |                                       |  |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               |                    |    |

**CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2018**


| Revision Code | Norm item |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h1 style="margin: 0;">RANKING</h1> <h2 style="margin: 0;">Office - LNG</h2> </div> | GENERAL MAN.  | Doc. & Impl. | QUALITY DEPT. | Doc. & Impl. | TECHNICAL DEPT. | Doc. & Impl. | NAUTICAL DEPT. | Doc. & Impl. | PERSONNEL DEPT. | Doc. & Impl. | OPER./CHART DEPT. | Doc. & Impl. | PURCHASING DEPT. | Doc. & Impl. | FINANCIAL DEPT. | Doc. & Impl. | IT DEPT. | Doc. & Impl. | INS - / CLAIM DEPT. | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |    |    |
|---------------|-----------|---|---|--------------|---------------|--------------|-----------------|--------------|----------------|--------------|-----------------|--------------|-------------------|--------------|------------------|--------------|-----------------|--------------|----------|--------------|---------------------|--------------|----------------|---------------|--------------------|----|----|
|               |           |   |   |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |    |
| N             | 2111      | <b>Electronic chart display &amp; information systems / ECDIS</b>   |   |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |    |
|               |           | <b>Applicable to the companies with ships for which carriage of ECDIS is compulsory</b>   |   |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |    |
| N             | 2111.3    | Does the company provide navigational procedures concerning the use of ECDIS?   |   |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |    |
| N             | 2111.4    | Is it a company policy to list ECDIS as critical equipment and integrate into PMS? (hardware and software)  |   |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |    |
| N             | 2111.5    | Is it a company policy that ECDIS is tested according to IHO ECDIS data presentation and performance check with a use of test data set after every update of the software (including back up)?  |   |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |    |
| N             | 2111.6    | Is it a company policy that regardless of the generic training the crew is familiarised with the ECDIS unit(s) installed onboard according to the Industry Recommendations for ECDIS Familiarisation?   |   |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 15 |    |
| N             | 2111.7    | Is it a company policy to provide structured ECDIS training(s) for all officers on top of the generic training (besides the familiarization onboard in R2111.6)?  |   |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |    |
| N             | 2111.8    | Does the company have a contract / agreement with ECDIS manufacturer in relation to the maintenance of the software?  |   |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |    |
| N             | 2111.11   | Does the company have a standard for display settings (layers) of ECDIS for various navigation conditions (arrival / departure - coastal - deep sea)?   |   |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |    |
| N             | 2111.12   | Is it a company policy that the vessels have a basic folio of paper charts (in case second ECDIS is a back up system)?  |   |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |    |
|               |           |   |   |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 60 |    |
|               |           |   | <b>Total score</b>  |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    | 0  | 60 |
|               |           |   | <b>Minimum ranking score required for element 2111 = 35</b> |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |    |
|               | 2120      | <b>Fuel Change Over / Ballast Water Exchange</b>  |   |              | 0             |              |                 |              | 0              |              |                 |              | 0                 |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |    |
| M             | 2120.1    | Is it company policy that the voyage plan (checklist) include when fuel change over <u>should</u> be carried out?   |   |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |    |
| M             | 2120.2    | Is it company policy that the voyage plan (checklist) include when ballast water exchange <u>can</u> be carried out?  |   |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |    |
|               |           |   |   |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 20 |    |
|               |           |   | <b>Total score</b>  |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    | 0  | 20 |
|               |           |   | <b>Minimum ranking score required for element 2120 = 20</b> |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |    |

| CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2018 |  |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |    |
|--|--|---|--------------|---------------------------|---------------|--------------|-----------------|--------------|----------------|--------------|-----------------|--------------|-------------------|--------------|------------------|--------------|-----------------|--------------|----------|--------------|---------------------|--------------|----------------|---------------|--------------------|----|----|
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|  |  |   | 2300         | <b>Mooring Operations</b> |               |              |                 |              |                |              |                 | 0            |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |    |
| 2300.1   | Does the company have procedures/instructions for mooring/unmooring operations?  |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |    |
| <b>Total score</b>   |  |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              | 0              | 10            |                    |    |    |
| <b>Minimum ranking score required for element 2300 = 10</b>              |  |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |    |
| 3000   | <b>MACHINERY / ENGINE OPERATIONS</b>   |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |    |
| 3100   | <b>Bunker Operations</b>   |   |              |                           |               |              |                 |              | 0              |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |    |
| 3100.1   | Does the company MS specify a safe-maximum percentage fill for bunker tanks? (max. limit 95%)  |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |    |
| 3100.2   | Is a checklist used for bunker operations (company format) ?   |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |    |
| 3100.3   | Does the bunker procedure include a bunker plan (company format) ?   |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |    |
| 3100.4   | Are there procedures/instructions for the internal transfer of fuel oil between main storage tanks?  |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |    |
| 3100.5   | Is there an instruction that all persons involved are to be familiar with the intended bunker operation and/or internal transfer operation and their duties?                         |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |    |
| <b>Total score</b>   |  |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              | 0              | 50            |                    |    |    |
| <b>Minimum ranking score required for element 3100 = 50</b>              |  |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |    |
| 3200   | <b>Fuel Oil Testing, Bunker Alerts &amp; Marpol Bunkering Requirements &amp; Additional Green Award requirements</b>   |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |    |
| 3200.1   | Is it company procedure that bunkered fuel oil is always tested (before use onboard) by a recognised fuel analysis organisation ashore according to the latest edition of ISO 8217 ? |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    | 0  | 40 |
| 3200.5   | Are global bunker quality alerts received onboard from company fleet experience and from the fuel analysis organisation ?  |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    | 0  | 10 |
| 3200.13  | Is an evaluation of all fuel oil suppliers carried out and are the negative results brought to the attention of the charterer?   |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    | 0  | 10 |
| 3200.8   | Is support given by the office to the vessels in obtaining Bunker Delivery Notes for every fuel delivery as required by MARPOL Annex VI ?  |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    | 0  | 10 |
| 3200.9   | Are all fuel sample bottles (Marpol and quality test sample) to be stored in an appropriate location sheltered from elevated temperatures ?  |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    | 0  | 5  |
| 3200.10  | Is a documentary record system for bunker samples and related bunker delivery notes implemented onboard company ships ?  |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    | 0  | 5  |
| 3200.11  | Is it company policy that fuel oil sampling is carried out in accordance with the latest edition of Gibraltar Port Authority Bunkering Code of Practice and Marpol Annex VI ?        |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    | 0  | 10 |
| <b>Total score</b>   |  |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              | 0              | 90            |                    |    |    |
| <b>Minimum ranking score required for element 3200 = 70</b>              |  |   |              |                           |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |    |


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




**CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2018**

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


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

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

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

| CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2018 |           |  |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |   |
|--|-----------|--|--------------|--|---------------|--------------|-----------------|--------------|----------------|--------------|-----------------|--------------|-------------------|--------------|------------------|--------------|-----------------|--------------|----------|--------------|---------------------|--------------|----------------|---------------|--------------------|---|
| Revision Code  | Norm item |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h2 style="margin: 0;">RANKING</h2> <h3 style="margin: 0;">Office - LNG</h3> </div>  | GENERAL MAN. | Doc. & Impl.   | QUALITY DEPT. | Doc. & Impl. | TECHNICAL DEPT. | Doc. & Impl. | NAUTICAL DEPT. | Doc. & Impl. | PERSONNEL DEPT. | Doc. & Impl. | OPER./CHART DEPT. | Doc. & Impl. | PURCHASING DEPT. | Doc. & Impl. | FINANCIAL DEPT. | Doc. & Impl. | IT DEPT. | Doc. & Impl. | INS - / CLAIM DEPT. | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |   |
|  |           |  | 5820         | <b>Management of bilge water and sludge handling onboard</b> |               |              |                 | 0            |                | 0            |                 | 0            |                   | 0            |                  | 0            |                 |              |          |              |                     |              |                |               |                    |   |
|  | 5820.1    | Is it company policy to have a list of permitted chemicals and detergents used in machinery spaces available onboard in order to make ship crew familiar with the emulsifying characteristics in the ER bilge and sludge systems?  |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5 |
|  | 5820.2    | Is it company policy, that the engineer responsible for the bilge water management and sludge handling, is provided with a training program by the ship manager? (Training includes: bilge water system and sludge handling, use and disposal of chemicals and detergents available onboard and the problems related to bilge water and sludge separation) |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5 |
|  | 5820.3    | Is it company policy to have an onboard familiarization checklist for the engine room personnel including sludge and bilge water management available?   |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5 |
| M  | 5820.4    | Is it company policy that all the ER personnel is familiarized with the tanks in which the ER drip trays, drains, scuppers, gutters are connected to (In order to ensure that these substances are collected in the right tanks) ?   |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5 |
|  | 5820.5    | Is it company policy to include Sludge/Bilge and Soot collection tanks in the PMS for regular cleaning / inspection?   |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5 |
|  | 5820.6    | Is it company policy to build vessels with bilge and sludge handling system in accordance with the MEPC.1/Circ. 642) guidelines?   |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5 |
| <b>Total score</b>   |           |  |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              | 0              | 30            |                    |   |
| <b>Minimum ranking score required for element 5820 = 15</b>              |           |  |              |  |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |   |




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


**CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2018**

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




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

**CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2018**

| Revision Code   | Norm Item   |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h1 style="margin: 0;">RANKING</h1> <h2 style="margin: 0;">Office - LNG</h2> </div> | GENERAL MAN. | Doc. & Impl. | QUALITY DEPT. | Doc. & Impl. | TECHNICAL DEPT. | Doc. & Impl. | NAUTICAL DEPT. | Doc. & Impl. | PERSONNEL DEPT. | Doc. & Impl. | OPER./CHART DEPT. | Doc. & Impl. | PURCHASING DEPT. | Doc. & Impl. | FINANCIAL DEPT. | Doc. & Impl. | IT DEPT. | Doc. & Impl. | INS- / CLAIM DEPT. | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |    |
|---|---|---|--------------|--------------|---------------|--------------|-----------------|--------------|----------------|--------------|-----------------|--------------|-------------------|--------------|------------------|--------------|-----------------|--------------|----------|--------------|--------------------|--------------|----------------|---------------|--------------------|----|
|   |   |   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               |                    |    |
| 6110  | <b>Critical and Stand-by Equipment</b>  |   | 0            |              | 0             |              | 0               |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               |                    |    |
| 6110.1  | Is the risk assessment carried out in order to create a list of critical equipment for every ship after intermediate survey (at least every 2.5 years)?   |   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
| 6110.2  | Does the list of critical equipment include and specify stand-by equipment for every ship?  |   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
| 6110.3  | Is the feedback from the ship considered in the process of creating a list of critical equipment? (eg. PMS reports)   |   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
| 6110.4  | Is it company policy to categorize the ship into departments as per TMSA (OCIMF) in the process of creating a list of critical equipment?   |   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 5  |
| 6110.5  | Is it company policy to install a Computer Based Program to register failures, break downs and near misses in order to have a constant event report on the systems?                               |   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
| 6110.6  | Are those event reports considered in creating a list of critical equipment?  |   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
| 6110.7  | Is it company policy to install a Computer Based Program for spare parts management of critical equipment and stand-by equipment?   |   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
| 6110.8  | Is it company policy to have safety stock inventory reports for critical equipment and stand-by equipment?  |   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
| <b>Total score</b>  |   |   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              | 0              | 75            |                    |    |
| <b>Minimum ranking score required for element 6110 = 30</b> |   |   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               |                    |    |
| 6200  | <b>Mooring Equipment</b>  |   |              |              |               | 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   | <b>Alternative to 6200.7:</b> (for fibre ropes) Are there procedures for care of fibre ropes?   |   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               | 0                  | 10 |
| <b>Total score</b>  |   |   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              | 0              | 75            |                    |    |
| <b>Minimum ranking score required for element 6200 = 45</b> |   |   |              |              |               |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                    |              |                |               |                    |    |


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

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


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

**CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2018**


| Revision Code   | Norm Item |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h1 style="margin: 0;">RANKING</h1> <h2 style="margin: 0;">Office - LNG</h2> </div> | GENERAL MAN. | Doc. & Impl. | QUALITY DEPT.   | Doc. & Impl. | TECHNICAL DEPT. | Doc. & Impl. | NAUTICAL DEPT. | Doc. & Impl. | PERSONNEL DEPT. | Doc. & Impl. | OPER./CHART DEPT. | Doc. & Impl. | PURCHASING DEPT. | Doc. & Impl. | FINANCIAL DEPT. | Doc. & Impl. | IT DEPT. | Doc. & Impl. | INS - / CLAIM DEPT. | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |    |
|---|-----------|---|--------------|--------------|---|--------------|-----------------|--------------|----------------|--------------|-----------------|--------------|-------------------|--------------|------------------|--------------|-----------------|--------------|----------|--------------|---------------------|--------------|----------------|---------------|--------------------|----|
|   |           |   |              | 7300.15      | Is the system as meant in 7300.14 audited and certified by an IACS member classification society? |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |
| N   | 7300.17   | Is it company policy that all the officers are to complete Security Awareness Training ?  |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |
| <b>Total score</b>  |           |   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              | 0              | 170           |                    |    |
| <b>Minimum ranking score required for element 7300 = 90</b> |           |   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |
|   | 7400      | <b>Familiarisation, Additional Green Award Requirement</b>  |              |              |   |              |                 |              | 0              |              | 0               |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |
| M   | 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 |
| M   | 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 |
| M/RR  | 7400.3    | Is it company policy that senior officers are retained to sail on the same type of vessel (Membrane or Spherical)?  |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
| N   | 7400.6    | Is it company policy that Junior officers are retained to sail on the same type of vessel (Membrane or Spherical)?  |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
| M/RR  | 7400.4    | Is a formal handover procedure implemented for all officers onboard?  |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
| <b>Total score</b>  |           |   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              | 0              | 70            |                    |    |
| <b>Minimum ranking score required for element 7400 = 50</b> |           |   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |
| M   | 7500      | <b>Safe Manning and Fatigue Management</b>  |              |              |   |              |                 |              |                |              | 0               |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |
| M   | 7500.1    | Is it a company policy to use a software programme to record the work/rest hours performed by the individual seafarer ?   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
| N   | 7500.3    | Is it a company policy that work/rest hours records onboard of the vessel are accessible and regularly updated ?  |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
| N   | 7500.4    | Are reports of work/rest hours reviewed on regular basis ?  |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
| M   | 7500.2    | Is there a company policy to monitor and address non compliance on STCW 2010 Manila amendments of work/rest hours ?   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 10 |
| N   | 7500.5    | Is there a company specific fatigue management plan available to ensure the health and the well being of the sea farers ?   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 20 |
| N   | 7500.6    | Is it company policy to integrate the fatigue management plan with the safety management system and monitor its implementation?   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |
| N   | 7500.7    | Does the company have a system in which crew members are able to report on fatigue related issues?  |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               | 0                  | 5  |
| <b>Total score</b>  |           |   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              | 0              | 70            |                    |    |
| <b>Minimum ranking score required for element 7500 = 50</b> |           |   |              |              |   |              |                 |              |                |              |                 |              |                   |              |                  |              |                 |              |          |              |                     |              |                |               |                    |    |




**CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2018**









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



| CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2018 |  |                      |                                  |                                |                                |
|--|--|----------------------|----------------------------------|--------------------------------|--------------------------------|
| Norm Item  |  <b>TOTAL SCORE REVIEW</b><br><b>OFFICE AUDIT - LNG CARRIER</b> | OFFICE RANKING SCORE | MAXIMUM OBTAINABLE RANKING SCORE | MINIMUM RANKING SCORE REQUIRED | ELEMENTS WITH NO MINIMUM SCORE |
| <b>1000</b>  | <b>GENERAL</b>   |                      |                                  |                                |                                |
| 1100   | Data Monitoring and Recording Equipment  | 0                    | 35                               | 0                              |                                |
| 1200   | Enclosed Space Entry & Hot Work  | 0                    | 110                              | 110                            |                                |
| 1300   | Compressor for the refilling of air cylinders for breathing apparatus or Alternative, Additional Green Award requirement                         | 0                    | 20                               | 10                             |                                |
| 1400   | Control of drugs & alcohol onboard   | 0                    | 30                               | 30                             |                                |
| 1500   | Emergency Response System  | 0                    | 75                               | 55                             |                                |
| 1600   | Computer Systems, Networks, Data Security and Training. GA requirement   | 0                    | 65                               | 40                             |                                |
| 1700   | Noise and Vibration Management   | 0                    | 65                               | 25                             |                                |
| 1710   | Underwater Noise and Vibration Management  | 0                    | 30                               | 0                              |                                |
| <b>2000</b>  | <b>NAVIGATION / BRIDGE OPERATIONS</b>  |                      |                                  |                                |                                |
| 2100   | Navigation   | 0                    | 120                              | 50                             |                                |
| 2111   | Electronic chart display & information systems / ECDIS   | 0                    | 60                               | 35                             |                                |
| 2120   | Fuel Change Over / Ballast Water Exchange  | 0                    | 20                               | 20                             |                                |
| 2300   | Mooring Operations   | 0                    | 10                               | 10                             |                                |
| <b>3000</b>  | <b>MACHINERY / ENGINE OPERATIONS</b>   |                      |                                  |                                |                                |
| 3100   | Bunker Operations  | 0                    | 50                               | 50                             |                                |
| 3200   | Fuel Oil Testing, Bunker Alerts & Marpol Bunkering Requirements & Additional Green Award requirements  | 0                    | 90                               | 70                             |                                |
| <b>4000</b>  | <b>CARGOES / CARGO OPERATIONS</b>  |                      |                                  |                                |                                |
| 4100   | LNG Carrier Cargo Operations & Additional Green Award requirements   | 0                    | 60                               | 60                             |                                |
| 4200   | Ship to Ship Transfer Operations   | 0                    | 40                               | 40                             |                                |
| <b>5000</b>  | <b>PREVENTION OF POLLUTION</b>   |                      |                                  |                                |                                |
| 5200   | Waste Management / Garbage Handling Onboard  | 0                    | 100                              | 55                             |                                |
| 5300   | Cargo Vapour Emission Control Systems  | 0                    | 40                               | 20                             |                                |
| 5400   | Management of Ship Exhaust Emissions, SOx Content of Fuel, Sulphur Emission Control Areas (SECA)   | 0                    | 260                              | 80                             |                                |
| 5460   | Environmental Ship Index (ESI)   | 0                    | 50                               | 0                              |                                |
| 5500   | Sewage Management  | 0                    | 55                               | 5                              |                                |
| 5510   | Grey Water Management  | 0                    | 25                               | 0                              |                                |
| 5700   | Ballast Water Management   | 0                    | 110                              | 60                             |                                |
| 5810   | Stern tube lubrication   | 0                    | 60                               | 0                              |                                |
| 5811   | Mooring wire lubrication   | 0                    | 20                               | 0                              |                                |
| 5812   | Deck equipment lubrication (use of oils)   | 0                    | 55                               | 0                              |                                |
| 5820   | Management of bilge water and sludge handling onboard  | 0                    | 30                               | 15                             |                                |
| 5821   | Outfitting of bilge water system   | 0                    | 50                               | 20                             |                                |
| 5822   | Outfitting of sludge handling system   | 0                    | 35                               | 5                              |                                |
| 5900   | Ship Recycling - Inventory of Hazardous Materials  | 0                    | 100                              | 40                             |                                |
| 5910   | Ship Recycling - Policy for ships due to be recycled   | 0                    | 140                              | 60                             |                                |

| CHECKLIST - RANKING CRITERIA - OFFICE AUDIT - LNG CARRIER - VERSION 2018 |   |  |                         |  |                                   |                                   |
|--|---|--|-------------------------|--|-----------------------------------|-----------------------------------|
| Norm Item  |          | TOTAL SCORE REVIEW<br>OFFICE AUDIT - LNG CARRIER | OFFICE RANKING<br>SCORE | MAXIMUM<br>OBTAINABLE<br>RANKING SCORE | MINIMUM RANKING<br>SCORE REQUIRED | ELEMENTS WITH NO<br>MINIMUM SCORE |
| <b>6000</b>  | <b>MAINTENANCE / SURVEYS</b>  |  |                         |  |                                   |                                   |
| 6100   | Programme of Inspections  |  | 0                       | 70                                     | 60                                |                                   |
| 6110   | Critical and Stand-by Equipment   |  | 0                       | 75                                     | 30                                |                                   |
| 6200   | Mooring Equipment   |  | 0                       | 75                                     | 45                                |                                   |
| 6300   | Corrosion Prevention of Seawater Ballast Tanks  |  | 0                       | 75                                     | 40                                |                                   |
| 6400   | Condition Assessment Program, Maintenance Additional Green Award requirements             |  | 0                       | 120                                    | 60                                |                                   |
| <b>7000</b>  | <b>CREW</b>   |  |                         |  |                                   |                                   |
| 7100   | Employment of Personnel   |  | 0                       | 30                                     | 0                                 |                                   |
| 7200   | Extra Personnel, Additional Green Award Requirement                                       |  | 0                       | 90                                     | 40                                |                                   |
| 7300   | Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses |  | 0                       | 170                                    | 90                                |                                   |
| 7400   | Familiarisation, Additional Green Award Requirement                                       |  | 0                       | 70                                     | 50                                |                                   |
| 7500   | Safe Manning and Fatigue Management   |  | 0                       | 70                                     | 50                                |                                   |
| <b>9000</b>  | <b>REQUIREMENTS ACCORDING TO NEN-EN ISO 9001:2000</b>                                     |  |                         |  |                                   |                                   |
| 9406   | PURCHASING  |  | 0                       | 60                                     | 60                                |                                   |
| 9407   | PURCHASER SUPPLIED PRODUCT  |  | 0                       | 40                                     | 40                                |                                   |
| 9408   | PRODUCT IDENTIFICATION AND TRACEABILITY   |  | 0                       | 20                                     | 20                                |                                   |
| 9411   | INSPECTION, MEASURING AND TEST EQUIPMENT  |  | 0                       | 10                                     | 10                                |                                   |
| 9412   | INSPECTION AND TEST STATUS  |  | 0                       | 20                                     | 20                                |                                   |
| 9415   | HANDLING, STORAGE, PACKAGING AND DELIVERY   |  | 0                       | 30                                     | 30                                |                                   |
| 9420   | STATISTICS (See also vessel requirements)   |  | 0                       | 20                                     | 20                                |                                   |
|  | <b>TOTAL SCORES</b>   |  | <b>0</b>                | <b>3055</b>                            | <b>1630</b>                       |                                   |

## LEGEND


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

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


## **APPENDIX 3**


**CHECKLIST - BASIC CRITERIA - SHIP SURVEY -  
LNG CARRIER**

**(LMC-08)**

| CHECKLIST - BASIC CRITERIA - SURVEY - LNG CARRIER - VERSION 2018 |            |  |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|--|------------|--|---|--------------|---------------|--------------|--------------|--------------|-------------|--------------|----------------|--------------|------------------|--------------|-----------------|--------------|--------------------|
| Revision Code  | Norm item  |   | <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h1 style="margin: 0;">BASIC</h1> <h2 style="margin: 0;">Ship - LNG</h2> </div> |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  |            |  | MASTER  | Doc. & Impl. | CHIEF OFFICER | Doc. & Impl. | DECK OFFICER | Doc. & Impl. | DECK RATING | Doc. & Impl. | CHIEF ENGINEER | Doc. & Impl. | ENGINEER OFFICER | Doc. & Impl. | ENGINEER RATING | Doc. & Impl. | CATERING PERSONNEL |
|  | <b>100</b> | <b>MANAGEMENT ELEMENTS</b>   |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | <b>101</b> | <b>GENERAL</b>   | o   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | 101.1      | Are the Management System (MS) Manuals maintained and updated?   |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | <b>102</b> | <b>SAFETY AND ENVIRONMENTAL PROTECTION POLICY</b>  | o   |              | o             |              | o            |              | o           |              | o              |              | o                |              | o               |              |                    |
|  | 102.1      | Is the company policy concerning safety and the environment available, posted and implemented at all levels?   |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | <b>103</b> | <b>COMPANY RESPONSIBILITIES AND AUTHORITY</b>  | o   |              | o             |              | o            |              | o           |              | o              |              | o                |              | o               |              |                    |
|  | 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 ?   |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | <b>104</b> | <b>DESIGNATED PERSONS</b>  | o   |              | o             |              | o            |              | o           |              | o              |              | o                |              | o               |              |                    |
|  | 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 ? |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | <b>105</b> | <b>MASTER'S RESPONSIBILITY AND AUTHORITY</b>   | o   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | 105.1      | Is the responsibility of the master clearly defined and documented?  |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | 105.2      | Does the master implement the Company's safety and environmental-protection policy on board?   |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | 105.3      | Does the master motivate the crew in the observation of that policy?   |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | 105.4      | Does the master verify that specified requirements are observed?   |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | 105.5      | Does the master review the MS and are its deficiencies reported to the shore-based management?   |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | <b>106</b> | <b>RESOURCES AND PERSONNEL AND STCW</b>  | o   |              |               |              |              |              |             | o            |                |              |                  |              |                 |              |                    |
|  | 106.1      | Does the company have a procedure for the Master to ensure that assigned sea staff are in possession of necessary certificates when joining the vessel?  |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | 106.4      | Are shipboard personnel informed about new/revised rules, regulations, codes and guidelines?   |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | 106.6      | Does ship's personnel receive training/courses which are required in support of the MS?  |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | 106.11     | Is the working language between the office and the vessels defined?  |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | 106.12     | Are all senior and deck officers conversant in the English language for maritime communication?  |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | 106.13     | Is relevant information on the MS written in a working language or languages understood by officers and shipboard personnel?   |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | 106.14     | Is the working language monitored and checked by the ship's staff?   |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | 106.15     | Are new personnel and personnel transferred to new assignments, given proper familiarisation with their duties?  |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | 106.16     | Are instructions, which are essential prior to sailing, identified, documented and given to the new personnel?   |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |
|  | 106.17     | Is the Master fully conversant with the Company's Management Systems?  |   |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |

**CHECKLIST - BASIC CRITERIA - SURVEY - LNG CARRIER - VERSION 2018**

| Revision Code | Norm item   |  <div style="border: 1px solid black; padding: 10px; text-align: center; margin-top: 10px;"> <h2 style="margin: 0;">BASIC</h2> <h3 style="margin: 0;">Ship - LNG</h3> </div> | MASTER | Doc. & Impl. | CHIEF OFFICER | Doc. & Impl. | DECK OFFICER | Doc. & Impl. | DECK RATING | Doc. & Impl. | CHIEF ENGINEER | Doc. & Impl. | ENGINEER OFFICER | Doc. & Impl. | ENGINEER RATING | Doc. & Impl. | CATERING PERSONNEL | Doc. & Impl. | NOT APPLICABLE |
|---------------|---|---|--------|--------------|---------------|--------------|--------------|--------------|-------------|--------------|----------------|--------------|------------------|--------------|-----------------|--------------|--------------------|--------------|----------------|
|               |   |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 107           | <b>DEVELOPMENT OF PLANS FOR SHIPBOARD OPERATIONS</b>  |   | ○      |              | ○             |              |              |              |             |              | ○              |              |                  |              |                 |              | ○                  |              |                |
| 107.2         | Are plans and instructions for key shipboard operations concerning safety of the ship and prevention of pollution, evaluated and reviewed?                              |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 107.3         | Are tasks, qualifications and responsibilities defined in the manuals and in the job descriptions?  |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 108           | <b>EMERGENCY PREPAREDNESS</b>   |   | ○      |              | ○             |              | ○            |              | ○           |              | ○              |              | ○                |              | ○               |              | ○                  |              |                |
| 108.1         | Does the system cover the arrangements needed to ensure that the company, day and night, can be notified if a hazard, accident or emergency involving the ship occurs ? |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 108.2         | Are tasks, qualifications and responsibilities evaluated during drills and exercises as described in the emergency procedures?  |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 108.3         | Is communication with media described in the emergency procedures and is shipboard personnel aware of these instructions?   |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 108.5         | Is the shipboard personnel prepared to respond to emergency shipboard situations?   |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 109           | <b>REPORTS AND ANALYSES OF NON-CONFORMITIES, ACCIDENTS AND HAZARDOUS OCCURENCES</b>   |   | ○      |              | ○             |              |              |              |             |              | ○              |              |                  |              |                 |              | ○                  |              |                |
| 109.1         | Are safety and environmental inspections carried out, documented and reported?  |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 109.2         | Does the ship have instructions/procedures for the reporting of non-conformities/ near misses?  |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 109.3         | Are non-conformities, accidents and hazardous occurrences reported to the office?   |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 109.4         | Are corrective and/or preventive actions taken?   |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 109.5         | Does the company have objective evidence to show their support of the shipboard personnel in reporting of non-conformities / near misses?                               |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 110           | <b>MAINTENANCE OF THE SHIP AND EQUIPMENT</b>  |   | ○      |              | ○             |              |              |              |             |              | ○              |              |                  |              |                 |              | ○                  |              |                |
| 110.1         | Are ship inspections held at defined intervals? (minimum of twice a year or equivalent)   |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 110.2         | Are non-conformities reported including their possible cause?   |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 110.3         | Is appropriate corrective action taken?   |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 110.4         | Are records of these activities maintained?   |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 110.5         | Are ship-critical equipment and technical systems identified?   |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 110.6         | Does the MS provide for specific measures aimed at promoting the reliability of critical equipment and systems ?  |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 111           | <b>DOCUMENTATION</b>  |   | ○      |              | ○             |              |              |              |             |              | ○              |              |                  |              |                 |              |                    |              |                |
| 111.1         | Does the company have procedures to control documents and data relevant to the MS?  |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 111.2         | Are valid documents available at all relevant locations?  |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 111.3         | Are changes to documents reviewed and approved by authorised personnel?   |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |
| 111.4         | Are obsolete documents promptly removed ?   |   |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |

| CHECKLIST - BASIC CRITERIA - SURVEY - LNG CARRIER - VERSION 2018 |   |   |        |  |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |  |  |
|--|---|---|--------|--|---------------|--------------|--------------|--------------|-------------|--------------|----------------|--------------|------------------|--------------|-----------------|--------------|--------------------|--------------|----------------|--|--|
| Revision Code  | Norm item   |  <div style="border: 1px solid black; padding: 10px; text-align: center; margin-top: 10px;"> <h2 style="margin: 0;">BASIC</h2> <h3 style="margin: 0;">Ship - LNG</h3> </div> | MASTER | Doc. & Impl.                                       | CHIEF OFFICER | Doc. & Impl. | DECK OFFICER | Doc. & Impl. | DECK RATING | Doc. & Impl. | CHIEF ENGINEER | Doc. & Impl. | ENGINEER OFFICER | Doc. & Impl. | ENGINEER RATING | Doc. & Impl. | CATERING PERSONNEL | Doc. & Impl. | NOT APPLICABLE |  |  |
|  |   |   | 112    | <b>COMPANY VERIFICATION, REVIEW AND EVALUATION</b> |               | ○            |              | ○            |             |              |                |              |                  | ○            |                 |              |                    |              |                |  |  |
| 112.1  | Are internal audits carried out to verify whether safety and pollution-prevention activities, and other procedures, comply with the MS? |   |        |  |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |  |  |
| 112.4  | Are results of the audits and reviews brought to the attention of all shipboard personnel having responsibility in the area involved?   |   |        |  |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |  |  |
|  | <b>IMO ELEMENTS</b>   |   |        |  |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |  |  |
| <b>200</b>   | <b>SOLAS 1974</b>   |   |        |  |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |  |  |
| 201  | <b>SOLAS General Provisions</b>   |   | ○      |  |               |              |              |              |             |              | ○              |              |                  |              |                 |              |                    |              |                |  |  |
| 201.1  | Compliance with General Provisions  |   |        |  |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |  |  |
| 201.2  | Compliance with IGC Code  |   |        |  |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |  |  |
| 213  | <b>Certificates and documents on board</b>  |   | ○      |  |               |              |              |              |             |              | ○              |              |                  |              |                 |              |                    |              |                |  |  |
| 213.1  | Are all regulatory certificates valid ?   |   |        |  |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |  |  |
| 216  | <b>Maritime security</b>  |   | ○      |  |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |  |  |
| 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) ?  |   |        |  |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |  |  |








## **APPENDIX 4**

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

**(LMC-09)**






| CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2018 |             |   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
|---|-------------|---|--------|--------------|--|--------------|--------------|--------------|-------------|--------------|----------------|--------------|------------------|--------------|-----------------|--------------|--------------------|--------------|----------------|---------------|--------------------|----|
| Revision Code   | Norm. Item  |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h1 style="margin: 0;">RANKING</h1> <h2 style="margin: 0;">Ship - LNG</h2> </div> | MASTER | Doc. & Impl. | CHIEF OFFICER                                    | Doc. & Impl. | DECK OFFICER | Doc. & Impl. | DECK RATING | Doc. & Impl. | CHIEF ENGINEER | Doc. & Impl. | ENGINEER OFFICER | Doc. & Impl. | ENGINEER RATING | Doc. & Impl. | CATERING PERSONNEL | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |    |
|   |             |   | N      | 1710         | <b>Underwater Noise and Vibration Management</b> |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
| N   | 1710.1      | Were any measures implemented periodically to reduce cavitation from propeller?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
| N   | 1710.4      | Does the ship opt for re-routing or slow steaming where possible and practicable to protect whale sensitive areas?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
| <b>Total score</b>  |             |   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |    |
| <b>Minimum ranking score required for element 1710 = 0</b>              |             |   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
| <b>2000</b>   |             | <b>NAVIGATION / BRIDGE OPERATIONS</b>   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
|   | <b>2100</b> | <b>Navigation</b>   | 0      |              | 0  |              | 0            |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
|   | 2100.3      | Does the voyage or passage plan include contingency planning?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
| M   | 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 |
| M   | 2100.8      | Is navigational equipment included in the electronic Planned Maintenance System?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
|   | 2100.9      | Are masters entitled to use non-compulsory pilot services? (must be stated in a company procedure)  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
| N   | 2100.13     | Is the vessel using weather routing services while on long haul voyage?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
| RN/M  | 2100.18     | Is the vessel enrolled in a meteorological & oceanographic service in a form of a software application?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
| N   | 2100.19     | <b>Alternative to 2100.18:</b> Does the vessel have a capability to receive comprehensive weather information from the office or from coastal stations / platforms?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
| N   | 2100.15     | Is the vessel equipped with the multi constellation GNSS receiver?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
| N   | 2100.16     | Is the vessel equipped with the eLoran receiver?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
| N   | 2100.17     | Is the position for all stages of voyage compared with a different method of positioning than GPS?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
| <b>Total score</b>  |             |   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 120                |    |
| <b>Minimum ranking score required for element 2100 = 40</b>             |             |   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
| N   | 2111        | <b>Electronic chart display &amp; information systems / ECDIS</b>   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
|   |             | <b>Applicable to ships for which carriage of ECDIS is compulsory</b>  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
| N   | 2111.4      | Is ECDIS hardware maintained and software updated?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
| N   | 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  |
| N   | 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 |
| N   | 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  |
| N   | 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  |
| N   | 2111.11     | Does the ECDIS procedure suggest display settings (layers) of ECDIS for various navigation conditions (arrival / departure - coastal - deep sea)?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
| N   | 2111.12     | Does the vessel have a basic folio of paper charts (in case second ECDIS is a back up system)?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
| <b>Total score</b>  |             |   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 55                 |    |
| <b>Minimum ranking score required for element 2111 = 30</b>             |             |   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
|   | <b>2120</b> | <b>Fuel Change Over / Ballast Water Exchange</b>  | 0      |              | 0  |              | 0            |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
| M   | 2120.1      | Does the voyage plan (checklist) include when fuel change over <u>should</u> be carried out?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
| M   | 2120.2      | Does the voyage plan (checklist) include when ballast water exchange <u>can</u> be carried out?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
| <b>Total score</b>  |             |   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 20                 |    |
| <b>Minimum ranking score required for element 2120 = 20</b>             |             |   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |


| CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2018 |             |   |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
|---|-------------|---|--|--------------|-------------------------------------|--------------|--------------|--------------|-------------|--------------|----------------|--------------|------------------|--------------|-----------------|--------------|--------------------|--------------|----------------|---------------|--------------------|
| Revision Code   | Norm. Item  |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h2 style="margin: 0;">RANKING</h2> <h3 style="margin: 0;">Ship - LNG</h3> </div> | MASTER   | Doc. & Impl. | CHIEF OFFICER                       | Doc. & Impl. | DECK OFFICER | Doc. & Impl. | DECK RATING | Doc. & Impl. | CHIEF ENGINEER | Doc. & Impl. | ENGINEER OFFICER | Doc. & Impl. | ENGINEER RATING | Doc. & Impl. | CATERING PERSONNEL | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |
|   |             |   |  | <b>2200</b>  | <b>Helicopter / Ship Operations</b> |              |              |              |             | 0            |                | 0            |                  |              |                 |              |                    |              |                |               |                    |
|   | 2200.1      | Are crew members who are involved in helicopter/ship operations trained in standards and procedures?  |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |
|   | 2200.2      | Is an action plan in case of a helicopter accident available?   |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |
|   |             |   |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 20                 |
|   |             |   | Total score  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
|   |             |   | Minimum ranking score required for element 2200 = 20 |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
|   | <b>2300</b> | <b>Mooring Operations</b>   | 0  |              | 0                                   |              |              |              | 0           |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |
|   | 2300.1      | Does the company give procedures/instructions for mooring/unmooring operations?   |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |
|   | 2300.2      | Is new crew familiar with the operation and capabilities of the ship's mooring equipment?   |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |
|   | 2300.3      | Are specific mooring plans which have been used at certain terminals recorded?  |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 20                 |
|   | 2300.4      | Is a drawing of the mooring arrangement readily available on the bridge?  |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |
|   |             |   |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 50                 |
|   |             |   | Total score  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
|   |             |   | Minimum ranking score required for element 2300 = 30 |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
|   | <b>3000</b> | <b>MACHINERY / ENGINE OPERATIONS</b>  |  |              |                                     |              | 0            |              |             |              | 0              |              | 0                |              | 0               |              |                    |              |                | 0             | 10                 |
|   | 3100        | <b>Bunker Operations</b>  |  |              |                                     |              | 0            |              |             |              | 0              |              | 0                |              | 0               |              |                    |              |                | 0             | 10                 |
|   | 3100.1      | Does the company MS specify a safe-maximum percentage fill for bunker tanks? (max. limit 95%)   |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |
|   | 3100.2      | Is a checklist used for bunker operations (company format) ?  |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |
|   | 3100.3      | Does the bunker procedure include a bunker plan (company format) ?  |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |
|   | 3100.4      | Are there procedures/instructions for the internal transfer of fuel oil between main storage tanks?   |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |
|   | 3100.5      | Is there an instruction that all persons involved are to be familiar with the intended bunker operation and/or internal transfer operation and their duties?  |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |
|   |             |   |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 50                 |
|   |             |   | Total score  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
|   |             |   | Minimum ranking score required for element 3100 = 50 |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
|   | <b>3200</b> | <b>Fuel Oil Testing, Bunker Alerts, Marpol Bunkering Requirements &amp; Additional Green Award requirements</b>   |  |              |                                     |              |              |              |             |              | 0              |              |                  |              |                 |              |                    |              |                | 0             | 40                 |
|   | 3200.1      | Is bunkered fuel oil always tested (before use onboard) by a recognised fuel analysis organisation ashore according to the latest edition of ISO 8217 ?   |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 40                 |
|   | 3200.5      | Are global bunker quality alerts received onboard from company fleet experience & from the fuel analysis organisation ?   |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |
|   | 3200.7      | Is a material safety data sheet for the bunkered fuel received onboard from the bunker supplier ?   |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |
|   | 3200.8      | Is the vessel in receipt of a Bunker Delivery Note for every bunker delivery in accordance with MARPOL Annex VI ?   |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |
|   | 3200.9      | Are all fuel sample bottles (Marpol and quality test sample) stored in an appropriate safe location sheltered from elevated temperatures ?  |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 5                  |
|   | 3200.10     | Is a documentary record system for bunker samples and related bunker delivery notes implemented ?   |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 5                  |
|   | 3200.11     | Are all fuel oil sampling procedures in accordance with the latest edition of Gibraltar Port Authority Bunkering Code of Practice and Marpol Annex VI ?   |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |
|   | 3200.12     | Is the vessel provided with a line-sampler?   |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |
|   |             |   |  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 100                |
|   |             |   | Total score  |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
|   |             |   | Minimum ranking score required for element 3200 = 70 |              |                                     |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |







| CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2018 |             |  |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
|---|-------------|--|---|--------------|--|--------------|--------------|--------------|-------------|--------------|----------------|--------------|------------------|--------------|-----------------|--------------|--------------------|--------------|----------------|---------------|--------------------|----|
| Revision Code   | Norm Item   |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h2 style="margin: 0;">RANKING</h2> <h3 style="margin: 0;">Ship - LNG</h3> </div>  | MASTER  | Doc. & Impl. | CHIEF OFFICER                                | Doc. & Impl. | DECK OFFICER | Doc. & Impl. | DECK RATING | Doc. & Impl. | CHIEF ENGINEER | Doc. & Impl. | ENGINEER OFFICER | Doc. & Impl. | ENGINEER RATING | Doc. & Impl. | CATERING PERSONNEL | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |    |
|   |             |  |   | <b>5300</b>  | <b>Cargo Vapour Emission Control Systems</b> |              |              | 0            |             | 0            |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
|   | 5300.6      | Is there documented instruction for operational use of the installed system(s)?  |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
|   | 5300.7      | Is the crew familiarised with the system(s)?   |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
|   | 5300.8      | Is the vessel capable to use Boil-Off Gas as fuel for main-propulsion?   |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
|   | 5300.9      | Is the vessel fitted with Gas Combustion Unit to process excess Boil-Off Gas?  |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
|   | 5300.10     | Is the vessel's cargo weather decks and tank domes painted in a light colour to reduce Boil-Off Gas?   |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
|   | 5300.11     | Is the vessel's staff aware of vessel's critical speed vs UKC which can increase Boil-Off Gas?   |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
|   | 5300.12     | Does the company have additional procedures in place to avoid venting of Boil-Off Gas to atmosphere?   |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
|   |             |  | <b>Total score</b>  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 105                |    |
|   |             |  | <b>Minimum ranking score required for element 5300 = 70</b> |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
|   | <b>5400</b> | <b>Management of Ship Engine Emissions</b>   |   |              |  |              |              |              |             |              | 0              |              |                  |              |                 |              |                    |              |                |               |                    |    |
|   | 5400.1      | Is the emission of NOx for the main engine less than 17.0 g/kWh?   |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
|   | 5400.16     | Is the emission of NOx for the auxiliary engines less than the applicable Marpol limit in Annex VI Reg 13 3) a) ?  |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
|   | 5400.4      | Is an International Air Pollution Prevention certificate issued for the vessel?  |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
|   | 5400.10     | Is the vessel arranged with an approved monitoring & recording system for NOx ?  |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 30 |
|   | 5400.11     | Is the vessel arranged with a monitoring & recording system for SOx ?  |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
|   | 5400.12     | Is the vessel arranged with a monitoring & recording system for CO2 ?  |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
|   | 5400.13     | Is the vessel arranged with a monitoring & recording system for particulate matter ?   |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 30 |
|   | 5400.14     | Is the above data forwarded to the company on a regular basis? (minimum quarterly)   |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
|   |             |  | <b>Total score</b>  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 140                |    |
|   |             |  | <b>Minimum ranking score required for element 5400 = 10</b> |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
|   | <b>5420</b> | <b>Sulphur Content of Fuel</b>   |   |              |  |              |              |              |             |              | 0              |              |                  |              |                 |              |                    |              |                |               |                    |    |
| N   | 5420.8      | Is the ship's highest consumed sulphur content of HFO <u>3.00%</u> or lower based on fuel quality test results? (in the last one year since this survey date)? (GA Requirement)  |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
| N   | 5420.9      | Is the ship's highest consumed sulphur content of HFO <u>2.43%</u> or lower based on fuel quality test results? (in the last one year since this survey date)? (GA Requirement)  |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 15 |
| N   | 5420.10     | Is the ship's highest consumed sulphur content of HFO <u>1.50%</u> or lower based on fuel quality test results? (in the last one year since this survey date)? (GA Requirement)  |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 30 |
| N   | 5420.5      | Does the ship <u>voluntarily</u> use low sulphur fuel (max. 0.50% sulphur) or an approved exhaust gas cleaning system <b>during every port approach around the world?</b><br><i>If exhaust gas cleaning system used, sulphur content is measured with SO2:CO2 ratio. Ratio of max. 21.7 is equal to 0.50% sulphur content.</i>           |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 40 |
| N   | 5420.6      | Does the ship <u>voluntarily</u> use low sulphur fuel (max. 0.50% sulphur) or an approved exhaust gas cleaning system <b>at anchor and during every port stay around the world?</b><br><i>If exhaust gas cleaning system used, sulphur content is measured with SO2:CO2 ratio. Ratio of max. 21.7 is equal to 0.50% sulphur content.</i> |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 50 |
|   |             |  | <b>Total score</b>  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 140                |    |
|   |             |  | <b>Minimum ranking score required for element 5420 = 5</b>  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
|   | <b>5460</b> | <b>Environmental Ship Index (ESI)</b>  |   |              |  |              |              |              |             |              | 0              |              |                  |              |                 |              |                    |              |                |               |                    |    |
| M/RR  | 5460.2      | Does the ship participate in the Environmental Ship Index (ESI) and are ESI points above 30?   |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
| M/RR  | 5460.3      | Does the ship participate in the Environmental Ship Index (ESI) and are ESI points above 40?   |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
| M/RR  | 5460.4      | Does the ship participate in the Environmental Ship Index (ESI) and are ESI points above 50?   |   |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
|   |             |  | <b>Total score</b>  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 60                 |    |
|   |             |  | <b>Minimum ranking score required for element 5460 = 0</b>  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |





| CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2018 |             |   |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
|---|-------------|---|--|--------------|--------------------------|--------------|--------------|--------------|-------------|--------------|----------------|--------------|------------------|--------------|-----------------|--------------|--------------------|--------------|----------------|---------------|--------------------|--|
| Revision Code   | Norm. Item  |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h1 style="margin: 0;">RANKING</h1> <h2 style="margin: 0;">Ship - LNG</h2> </div> | MASTER   | Doc. & Impl. | CHIEF OFFICER            | Doc. & Impl. | DECK OFFICER | Doc. & Impl. | DECK RATING | Doc. & Impl. | CHIEF ENGINEER | Doc. & Impl. | ENGINEER OFFICER | Doc. & Impl. | ENGINEER RATING | Doc. & Impl. | CATERING PERSONNEL | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |  |
|   |             |   |  | <b>5500</b>  | <b>Sewage Management</b> |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
|   |             | <b>Alternative 1: Sewage Treatment Plant</b>  |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
| N   | 5500.1      | Is the sewage treated with a sewage treatment plant which uses minimal or no use of harmful chemicals?  |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 20                 |  |
| N   | 5500.2      | Is the treated discharged effluent from the sewage treatment plant collected for sampling periodically for testing?   |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 15                 |  |
| N   | 5500.3      | Is the ship in possession of the periodical effluent tested sample reports?   |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 15                 |  |
| N   | 5500.8      | Is the sewage treatment plant regularly checked and maintained as per manufacturer's guidelines?  |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 15                 |  |
|   |             | <b>Alternative 2: Sewage comminuting and disinfecting system</b>  |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
| N   | 5500.5      | Is the comminuted and disinfected sewage collected for sampling periodically for testing results?   |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
| N   | 5500.9      | Is the comminuting and disinfecting system regularly checked and maintained as per manufacturer's guidelines periodically?  |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
|   |             | <b>For all ships: Sewage Holding Tank</b>   |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
| N   | 5500.7      | Is the sewage holding tank regularly checked and maintained?  |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 5                  |  |
|   |             |   |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 70                 |  |
|   |             |   | Total score  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
|   |             |   | Minimum ranking score required for element 5500 = 5  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
|   | <b>5510</b> | <b>Grey Water Management</b>  |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
| N   | 5510.1      | Is the sewage treatment plant capable of treating grey water before being discharged?   |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 15                 |  |
| N   | 5510.2      | Is the grey water never discharged within the coastal and port areas?   |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
|   |             |   |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 25                 |  |
|   |             |   | Total score  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
|   |             |   | Minimum ranking score required for element 5510 = 0  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
|   | <b>5700</b> | <b>Ballast Water Management</b>   | 0  | 0            | 0                        |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
|   | 5700.1      | Are there ship-specific procedures/instructions (flag-approved according to IMO guidelines) for the control and management of ballast water on board?   |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
|   | 5700.2      | Does the ship have any additional system / equipment to reduce harmful aquatic organisms and pathogens in ballast water? (e.g. UV-filtering system, heating system, filters etc.) (System is to be flag-approved according to IMO guidelines) |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 40                 |  |
|   | 5700.3      | Is the master aware of regional/local ballast water requirements?   |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 5                  |  |
|   | 5700.4      | Is relevant crew properly familiarised with operational & safety aspects of ballast water management?   |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
|   | 5700.5      | Are tasks & responsibilities of shipboard personnel assigned to ballast water exchange operations defined, documented & controlled ?  |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
|   | 5700.6      | Is the master aware of cases where the ship cannot reasonably be expected to carry out ballast water exchange?  |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 5                  |  |
|   | 5700.7      | Are sediment volumes monitored & recorded ?   |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
|   | 5700.8      | Does sediment disposal take place in port (to sediment reception facility) or at sea (more than 200nm from land and at depth greater than 200m) ?   |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
|   |             | <b>Alternative to 5700.1 - 5700.8</b>   |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
|   | 5700.9      | Ship has official exemption from a party to the BW Convention (registration in BW record book and / or documented authorisation)  |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
|   |             |   |  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 100                |  |
|   |             |   | Total score  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
|   |             |   | Minimum ranking score required for element 5700 = 50 |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |


| CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2018 |             |   |  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
|---|-------------|---|--|--------------|--|--------------|--------------|--------------|-------------|--------------|----------------|--------------|------------------|--------------|-----------------|--------------|--------------------|--------------|----------------|---------------|--------------------|----|
| Revision Code   | Norm Item   |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h2 style="margin: 0;">RANKING</h2> <h3 style="margin: 0;">Ship - LNG</h3> </div>   | MASTER   | Doc. & Impl. | CHIEF OFFICER  | Doc. & Impl. | DECK OFFICER | Doc. & Impl. | DECK RATING | Doc. & Impl. | CHIEF ENGINEER | Doc. & Impl. | ENGINEER OFFICER | Doc. & Impl. | ENGINEER RATING | Doc. & Impl. | CATERING PERSONNEL | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |    |
|   |             |   |  | <b>5800</b>  | <b>Accidental Bunker Oil Pollution Prevention Measures (overflow prevention systems)</b> |              |              |              |             |              |                |              |                  | 0            |                 |              |                    |              |                |               |                    |    |
|   | 5800.4      | Are all fuel oil bunker tanks fitted with a high level alarm?   |  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
|   | 5800.5      | Are all fuel oil bunker tanks fitted with a high-high level alarm?  |  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
|   | 5800.6      | Are all fuel oil bunker tanks fitted with a overflow line that is connected to an overflow tank which is arranged with a level alarm?   |  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
|   | 5800.7      | Are all fuel oil bunker tank overflow lines connected to an overflow tank and are they arranged with a flow alarm?  |  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
|   | 5800.8      | Are high level alarms and/or (over) flow alarms given on the location where the person in charge of the bunkering or transfer operation will normally be located?   |  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
|   |             |   |  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 30 |
|   |             |   | Minimum ranking score required for element 5800 = 15 |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
|   | <b>5801</b> | <b>Protective location of fuel and lubrication oil tanks</b>  |  |              |  |              |              |              |             |              | 0              |              |                  |              |                 |              |                    |              |                |               |                    |    |
|   | 5801.1      | Are any tanks intended for fuel-oil or other substances, with a minimum capacity of 20m <sup>3</sup> , constructed at least B/15 or 2 metres above the keel level ?   |  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
|   | 5801.2      | Are tanks for fuel oil protected by a double side ? (for ships below 20,000gt, width of double side to be at least 0.76m ; for 20,000gt and above, width to be at least 2 metres)   |  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 40 |
|   | 5801.3      | Are all lubrication oil tanks constructed at least 0.76 metres above the keel line ?  |  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
|   |             |   |  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 70 |
|   |             |   | Minimum ranking score required for element 5801 = 20 |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
|   |             | <b>Lubrication and Use of Oils (Element nr.: 5810, 5811 &amp; 5812)</b>   |  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
|   | <b>5810</b> | <b>Stern tube lubrication</b>   |  |              | 0  |              |              |              |             |              | 0              |              | 0                |              |                 |              |                    |              |                |               |                    |    |
| M/R/R   | 5810.1      | Is the vessel fitted with a class approved stern tube <u>water</u> lubricated system which uses <u>sea water</u> as a lubricant? (system includes water conditioning and monitoring equipment)  |  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 60 |
| N   | 5810.6      | <b>Alternative for 5810.1, 5810.3, 5810.4 and 5810.5</b><br>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)<br>*Additives used to maintain the condition of the water should be environmentally friendly. |  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 50 |
| M   | 5810.3      | <b>Alternative for 5810.1 and 5810.6:</b><br>Is the vessel fitted with a class approved stern tube lubrication system with an <u>air type</u> or <u>void space seal</u> ?<br>*Lubricant is certified according to EAL/EEL or equivalent.<br>*A procedure for proper handling of consumed oil is available!  |  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 25 |
| M   | 5810.4      | <b>Alternative for 5810.1 and 5810.6:</b><br>Does the vessel use a stern tube lubricant that is certified according to the EAL/EEL or equivalent?   |  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 15 |
| M   | 5810.5      | <b>Alternative for 5810.1 and 5810.6:</b><br>Is the crew aware of characteristics of the environmentally friendly stern tube lubricant (EAL/EEL certified or equivalent) with respect to maintenance & its effect on the system if needed? (e.g. condition of seals & filters, temperature & condition of oil etc.)                                 |  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
|   |             |   |  |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 60 |
|   |             |   | Minimum ranking score required for element 5810 = 15 |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |


| CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2018 |  |   |        |                                 |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
|---|--|---|--------|---------------------------------|---------------|--------------|--------------|--------------|-------------|--------------|----------------|--------------|------------------|--------------|-----------------|--------------|--------------------|--------------|----------------|---------------|--------------------|----|
| Revision Code   | Norm. item   |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h1 style="margin: 0;">RANKING</h1> <h2 style="margin: 0;">Ship - LNG</h2> </div> | MASTER | Doc. & Impl.                    | CHIEF OFFICER | Doc. & Impl. | DECK OFFICER | Doc. & Impl. | DECK RATING | Doc. & Impl. | CHIEF ENGINEER | Doc. & Impl. | ENGINEER OFFICER | Doc. & Impl. | ENGINEER RATING | Doc. & Impl. | CATERING PERSONNEL | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |    |
|   |  |   | 5811   | <b>Mooring wire lubrication</b> |               |              |              |              |             |              |                |              |                  | 0            |                 | 0            |                    |              |                |               |                    |    |
| 5811.1  | Does the vessel use a mooring wire lubricant / grease that is certified according to the EEL?  |   |        |                                 |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
| <b>Total score</b>  |  |   |        |                                 |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 20                 |    |
| <b>Minimum ranking score required for element 5811 = 0</b>              |  |   |        |                                 |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
| 5812  | <b>Deck equipment lubrication (use of oils)</b>  |   |        |                                 |               |              |              |              |             |              | 0              |              | 0                |              |                 |              |                    |              |                |               |                    |    |
| 5812.1  | Does the vessel use grease that is certified according to the EEL (all deck equipment)?  |   |        |                                 |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 15 |
| 5812.2  | Does the vessel use gear oil that is certified according to the EEL (all deck equipment)?  |   |        |                                 |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
| 5812.3  | Does the vessel use hydraulic oil that is certified according to the EEL in mooring and anchor appliances?   |   |        |                                 |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
| 5812.4  | Does the vessel use hydraulic oil that is certified according to the EEL in crane appliances?  |   |        |                                 |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
| 5812.6  | Is the crew aware of characteristics of environmentally friendly lubricants (EEL certified) with respect to maintenance & their effect on the applicable system if needed? (e.g. condition of seals & filters, temperature & condition of oil, prevention of humidity ingress etc.)  |   |        |                                 |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
| <b>Total score</b>  |  |   |        |                                 |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 55                 |    |
| <b>Minimum ranking score required for element 5812 = 0</b>              |  |   |        |                                 |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
| 5820  | <b>Management of bilge water and sludge handling onboard</b>   |   |        | 0                               |               | 0            |              | 0            |             | 0            |                | 0            |                  |              |                 |              |                    |              |                |               |                    |    |
| 5820.1  | Is there a list of permitted chemicals and detergents used in machinery spaces available onboard in order to make ship crew familiar with the emulsifying characteristics in the ER bilge and sludge systems?  |   |        |                                 |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
| 5820.2  | Is the engineer responsible for the bilge water management and sludge handling provided with a training program by the ship manager? (Training includes: bilge water system and sludge handling, use and disposal of chemicals and detergents available onboard and the problems related to bilge water and sludge separation) |   |        |                                 |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
| 5820.3  | Is an onboard familiarisation checklist for the engine room personnel including sludge and bilge water management available?   |   |        |                                 |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
| M   | 5820.4   | Is all ER personnel familiar with the tanks in which the ER drip trays, drains, scuppers, gutters are connected to (In order to ensure that these substances are collected in the right tanks)?   |        |                                 |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
| <b>Total score</b>  |  |   |        |                                 |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 20                 |    |
| <b>Minimum ranking score required for element 5820 = 15</b>             |  |   |        |                                 |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |




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|---|-------------|---|---|--------------|---|--------------|--------------|--------------|-------------|--------------|----------------|--------------|------------------|--------------|-----------------|--------------|--------------------|--------------|----------------|---------------|--------------------|-----|
| Revision Code   | Norm. Item  |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h1 style="margin: 0;">RANKING</h1> <h2 style="margin: 0;">Ship - LNG</h2> </div> | MASTER  | Doc. & Impl. | CHIEF OFFICER                               | Doc. & Impl. | DECK OFFICER | Doc. & Impl. | DECK RATING | Doc. & Impl. | CHIEF ENGINEER | Doc. & Impl. | ENGINEER OFFICER | Doc. & Impl. | ENGINEER RATING | Doc. & Impl. | CATERING PERSONNEL | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |     |
|   |             |   |   | <b>5822</b>  | <b>Outfitting of sludge handling system</b> |              |              | 0            |             | 0            |                | 0            |                  | 0            |                 | 0            |                    |              |                |               |                    |     |
|   | 5822.1      | Is a sludge collecting pump installed (with the sole purpose of collecting the sludge from different ER tanks to the Oil Residue (Sludge) Tank)?  |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5   |
|   | 5822.2      | Is a sludge discharge pump installed with the purpose of discharging the sludge to reception facilities (with sufficient capacity to discharge the sludge within 8 hrs)   |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5   |
|   | 5822.8      | Is a tank or system installed with the sole purpose of removing large quantities of water from the sludge?  |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5   |
|   | 5822.9      | Is a separate tank or system installed with the sole purpose of evaporating water from the sludge?  |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5   |
|   | 5822.10     | Is a separate tank or system installed with the purpose of mixing the sludge while incinerated (in incinerator or boiler)   |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5   |
|   | 5822.4      | <b>Alternative 1 to 5822.8 - 5822.10 and 5822.5 - 5822.6</b><br>Is the incinerator capable to incinerate sludge containing more than 25% of water and certified to the standard of IMO MEPC.76(40) as amended by MEPC.93(45)                  |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 15  |
|   | 5822.5      | <b>Alternative 2 to 5822.8 - 5822.10 and 5822.4 and 5822.6</b><br>Is a sludge decanter installed with the purpose of consuming the sludge as a fuel.  |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 25  |
|   | 5822.6      | <b>Alternative 3 to 5822.8 - 5822.10 and 5822.4 - 5822.5</b><br>Is all the ship sludge always delivered to reception facilities?  |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20  |
|   |             | <b>Alternative 4 (5822.7) to 5822.1 - 5822.2 and 5822.8 - 5822.10 and 5822.4 - 5822.6 (all the above)</b>   |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |     |
|   | 5822.7      | Is the sludge production limited due to not using HFO as a fuel?  |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 25  |
|   |             | <b>Total score</b>  |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 35  |
|   |             |   | <b>Minimum ranking score required for element 5822 = 5</b>  |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |     |
|   | <b>5900</b> | <b>Ship Recycling - Inventory of Hazardous Materials</b>  | 0   |              | 0   |              |              |              |             |              | 0              |              | 0                |              |                 |              |                    |              |                |               |                    |     |
|   | 5900.10     | Does the vessel have an "Inventory of Hazardous Materials" (Part I completed) or a "Green Passport"?  |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 110 |
|   | 5900.11     | <b>Alternative to 5900.10 and 5900.3:</b> Is objective evidence available onboard that the "Inventory of Hazardous Materials" has been initiated beyond Step 1 of Part I?   |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 70  |
|   | 5900.3      | <b>Alternative to 5900.10 and 5900.11:</b> Is objective evidence available onboard that as a minimum Step 1 of Part I of the "Inventory of Hazardous Materials" has been initiated?   |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 30  |
|   |             | <b>Total score</b>  |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 110 |
|   |             |   | <b>Minimum ranking score required for element 5900 = 0</b>  |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |     |
|   | <b>6000</b> | <b>MAINTENANCE / SURVEYS</b>  |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |     |
|   | <b>6100</b> | <b>Programme of Inspections</b>   | 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  |
|   |             | <b>Total score</b>  |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 60  |
|   |             |   | <b>Minimum ranking score required for element 6100 = 60</b> |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |     |
|   | <b>6110</b> | <b>Critical and Stand-by Equipment</b>  | 0   |              | 0   |              | 0            |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |     |
|   | 6110.5      | Is a Computer Based Program installed to register failures, break downs and near misses in order to have a constant event report on the systems?  |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10  |
|   | 6110.7      | Is a Computer Based Program installed for spare parts management of critical equipment and stand- by equipment?   |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10  |
|   | 6110.8      | Is a safety stock available for critical equipment and stand-by equipment?  |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10  |
|   |             | <b>Total score</b>  |   |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 30  |
|   |             |   | <b>Minimum ranking score required for element 6110 = 10</b> |              |   |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |     |

| CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2018 |             |  |   |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
|---|-------------|--|---|--------------|--------------------------|--------------|--------------|--------------|-------------|--------------|----------------|--------------|------------------|--------------|-----------------|--------------|--------------------|--------------|----------------|---------------|--------------------|----|
| Revision Code   | Norm. Item  |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h1 style="margin: 0;">RANKING</h1> <h2 style="margin: 0;">Ship - LNG</h2> </div>                    | MASTER  | Doc. & Impl. | CHIEF OFFICER            | Doc. & Impl. | DECK OFFICER | Doc. & Impl. | DECK RATING | Doc. & Impl. | CHIEF ENGINEER | Doc. & Impl. | ENGINEER OFFICER | Doc. & Impl. | ENGINEER RATING | Doc. & Impl. | CATERING PERSONNEL | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |    |
|   |             |  |   | <b>6200</b>  | <b>Mooring Equipment</b> | 0            |              | 0            |             |              |                | 0            |                  |              |                 |              |                    |              |                |               |                    |    |
|   | 6200.1      | Are winch brake tests carried out and recorded at least once a year or after an excessive load?  |   |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
|   | 6200.2      | Is a winch brake test kit on board?  |   |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
|   | 6200.3      | Is an overview available with all details of mooring wires / fibre ropes, winches, inspections, maintenance, tests etc.?   |   |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
|   | 6200.4      | Is the ship provided with information on the design of the mooring system? (with examples to show the loads likely to be experienced under particular conditions and to illustrate those situations under which the limit of the system is likely to be reached) |   |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
|   | 6200.5      | Are inspection, maintenance and discard criteria for mooring wires and tails / fibre ropes established and carried out by a competent person? (time interval for inspection should be in the PMS)  |   |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
|   | 6200.8      | Do these criteria take manufacturer's recommendations into account ?   |   |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
|   | 6200.9      | Does an additional examination take place after unusual events, such as long periods of inactivity, excessive loads, heat exposure, loading/discharge at swell ports, etc?   |   |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
|   | 6200.10     | Are internal inspections for wires + fibre ropes carried out & do these inspections take manufacturer's recommendations into account?  |   |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
|   | 6200.11     | Are the lubricants & cleaning products compatible with the wire and approved by the wire manufacturer?   |   |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
|   | 6200.6      | Is a log for "working days" of mooring wires and tails / fibre ropes maintained? (to predict the point of discard & for evaluation of wire/rope performance )  |   |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
|   | 6200.7      | Is an automatic wire rope lubricator in use on board?  |   |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
|   | 6200.12     | <b>Alternative to 6200.7:</b> (for fibre ropes) Are there procedures for care of fibre ropes?  |   |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
|   |             |  | <b>Total score</b>  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 95                 |    |
|   |             |  | <b>Minimum ranking score required for element 6200 = 65</b> |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
|   | <b>6300</b> | <b>Corrosion Prevention of Seawater Ballast Tanks</b>  |   |              | 0                        |              |              |              |             |              | 0              |              |                  |              |                 |              |                    |              |                |               |                    |    |
|   | 6300.1      | Are ballast tanks of double-hulled vessels, coated with a hard coating of a light colour?  |   |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
|   | 6300.6      | <b>Alternative to 6300.1</b> Are ballast tanks coated with dark epoxy maintained with a modified epoxy coating of a light colour, after safety benefit assessment is carried out?  |   |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
|   | 6300.7      | Is the coating approved according to the IMO performance standard? (type approval or statement of compliance according to Res. MSC 215(82) in Coating Technical File)  |   |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
|   | 6300.2      | Are ballast tanks maintained in a good condition?  |   |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
|   | 6300.3      | Are manufacturer's technical product data sheets and job specifications of the coatings on board?  |   |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
|   | 6300.5      | Is the corrosion prevention system, other than coating, included in the maintenance system?  |   |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
|   |             |  | <b>Total score</b>  |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 70                 |    |
|   |             |  | <b>Minimum ranking score required for element 6300 = 40</b> |              |                          |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |


| CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2018 |             |   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
|---|-------------|---|--------|--------------|--|--------------|--------------|--------------|-------------|--------------|----------------|--------------|------------------|--------------|-----------------|--------------|--------------------|--------------|----------------|---------------|--------------------|--|
| Revision Code   | Norm Item   |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h1 style="margin: 0;">RANKING</h1> <h2 style="margin: 0;">Ship - LNG</h2> </div> | MASTER | Doc. & Impl. | CHIEF OFFICER  | Doc. & Impl. | DECK OFFICER | Doc. & Impl. | DECK RATING | Doc. & Impl. | CHIEF ENGINEER | Doc. & Impl. | ENGINEER OFFICER | Doc. & Impl. | ENGINEER RATING | Doc. & Impl. | CATERING PERSONNEL | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |  |
|   |             |   |        | <b>6400</b>  | <b>Condition Assessment Program, Maintenance</b> Additional Green Award requirements | 0            |              | 0            |             |              |                |              |                  | 0            |                 |              |                    |              |                |               |                    |  |
| M   | 6400.1      | Does the ship hold a CAP rating for <u>Hull</u> with Rating / Grade 2 as a minimum?<br>(When the vessel reaches <u>20 years</u> of age, or by the <u>end of the 4th special survey</u> , whichever is earlier.)                               |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 25                 |  |
| M   | 6400.8      | Does the ship hold a CAP rating for <u>Cargo Systems</u> with Rating / Grade 2 as a minimum?<br>(When the vessel reaches <u>20 years</u> of age, or by the <u>end of the 4th special survey</u> , whichever is earlier.)                      |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 20                 |  |
| M   | 6400.9      | Does the ship hold a CAP rating for <u>Machinery</u> with Rating / Grade 2 as a minimum?<br>(When the vessel reaches <u>20 years</u> of age, or by the <u>end of the 4th special survey</u> , whichever is earlier.)                          |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 20                 |  |
| M   | 6400.2      | <b>(Alternative to 6400.1, 6400.8 and 6400.9 above)</b> Is the ship less than 20 years of age or has not reached the end of the 4th special survey yet?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 25                 |  |
|   | 6400.3      | Is it company policy that maintenance meetings are carried out on board?<br>(e.g. each month and at (all) sections on board)  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
|   | 6400.4      | Is a maintenance checklist used regarding the (monthly) maintenance inspection?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
|   | 6400.5      | Is an evaluation report of vessel's performance sent to the company?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 20                 |  |
|   | 6400.6      | Is an annual technical report made by the Company's superintendent?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 15                 |  |
|   |             | <b>Total score</b>  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              | 0              | 120           |                    |  |
|   |             | Minimum ranking score required for element 6400 = 60  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
|   | <b>6500</b> | <b>Certificates for Cargo Gear</b>  | 0      |              | 0  |              |              |              |             |              | 0              |              |                  |              |                 |              |                    |              |                |               |                    |  |
|   | 6500.1      | Is a register of cargo handling gear and lifting appliances issued? (CG1)   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
|   | 6500.2      | Is a certificate of test and thorough examination of lifting appliances issued? (CG2)   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
|   | 6500.3      | Is a certificate of test and thorough examination of loose gear issued? (CG3)   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
|   | 6500.4      | Is a certificate of test and thorough examination of wire rope issued? (CG4)  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
|   |             | <b>Total score</b>  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              | 0              | 40            |                    |  |
|   |             | Minimum ranking score required for element 6500 = 40  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
|   | <b>7000</b> | <b>CREW</b>   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
|   | <b>7200</b> | <b>Extra personnel, Additional Green Award Requirement</b>  | 0      |              |  |              |              |              |             |              | 0              |              |                  |              |                 |              |                    |              |                |               |                    |  |
| M/RR  | 7200.1      | Are there extra deck officers onboard in addition to what is required by minimum safe manning document?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
| RN/M  | 7200.7      | Are there extra engine officers onboard in addition to what is required by minimum safe manning document?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
| M/RR  | 7200.2      | Are there extra deck ratings onboard in addition to what is required by minimum safe manning document?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
| RN/M  | 7200.8      | Are there extra engine ratings onboard in addition to what is required by minimum safe manning document?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
| M   | 7200.3      | Is there a ship administrator onboard (In addition to the standard complement and extra deck-officers and -ratings above) ?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
| M   | 7200.5      | Is there a gas engineer onboard?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
| N   | 7200.6      | Is there an electrical officer onboard in addition to the engine officers required by the safe manning document?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
|   |             | <b>Total score</b>  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              | 0              | 70            |                    |  |
|   |             | Minimum ranking score required for element 7200 = 30  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |


| CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2018 |            |  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
|---|------------|--|--------|--------------|--|--------------|--------------|--------------|-------------|--------------|----------------|--------------|------------------|--------------|-----------------|--------------|--------------------|--------------|----------------|---------------|--------------------|--|
| Revision Code   | Norm. Item |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h2 style="margin: 0;">RANKING</h2> <h3 style="margin: 0;">Ship - LNG</h3> </div>  | MASTER | Doc. & Impl. | CHIEF OFFICER  | Doc. & Impl. | DECK OFFICER | Doc. & Impl. | DECK RATING | Doc. & Impl. | CHIEF ENGINEER | Doc. & Impl. | ENGINEER OFFICER | Doc. & Impl. | ENGINEER RATING | Doc. & Impl. | CATERING PERSONNEL | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |  |
|   |            |  |        | 7300         | <b>Training / Courses for Personnel, Additional Green Award Requirements &amp; IMO Model Courses</b> | 0            |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
| RR  | 7300.1     | Has the 2nd officer (deck) completed an approved advanced training for liquefied gas tanker cargo operations? (As a minimum, the program should comply with STCW 2010 including Manila amendments Reg V/1-2)   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 20                 |  |
|   | 7300.2     | Are all onboard personnel trained and qualified according to the approved basic training for liquefied gas tanker cargo operations? (as STCW 2010 including Manila amendments Reg V/1-2) (If training comprises at least 3 months approved seagoing service on tankers (instead of an approved tanker familiarisation course) this should include onboard computer-based training (CBT) and a documented system showing participation and qualifications.) |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
| M   | 7300.4     | Have the lower ranking deck officers completed advanced fire fighting (IMO2.03) ?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 5                  |  |
| M   | 7300.18    | Have the lower ranking engine officers completed advanced fire fighting (IMO2.03) ?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 5                  |  |
| M   | 7300.5     | Has the onboard management completed the onboard assessment/train the trainer course (IMO 1.30)?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 5                  |  |
| M   | 7300.6     | Have the officers involved in cargo and ballast handling completed a simulator based training/course (IMO 1.36) ?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
| M   | 7300.7     | Have the ship personnel completed "Marine Environmental Awareness" course (IMO 1.38)?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 5                  |  |
| M/RR  | 7300.8     | Have all the deck officers completed bridge team management/bridge resource management training course (IMO 1.22) ?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 5                  |  |
| N   | 7300.19    | Have all the engine officers completed engine room resource management training course?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 5                  |  |
| N   | 7300.20    | <b>Alternative to 7300.8 &amp; 7300.19</b> Have all the officers completed maritime resource management course ?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
| M/RR  | 7300.10    | Is there a cadet currently onboard or has there been any in the last 6 months ?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
| M   | 7300.11    | Has the gas engineer completed the advanced training for liquefied gas tanker cargo operations? (IMO 1.06)   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
|   | 7300.12    | Have all the senior officers (Master, Chief Officer, Chief Engineer, 2nd Engineer and Gas Engineer) completed the Liquid Cargo Operations Simulator (LICOS) course as recommended by SIGTTO for senior officers and relevant to cargo containment type (Membrane or Spherical)?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
|   | 7300.13    | Have all the junior officers (2nd Officer, 3rd Officer, 3rd Engineer and 4th Engineer) completed the Liquid Cargo Operations Simulator (LICOS) course as recommended by SIGTTO for junior officers and relevant to cargo containment type (Membrane or Spherical)?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 20                 |  |
| N   | 7300.17    | Have all the officers completed Security Awareness Training?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 5                  |  |
| <b>Total score</b>  |            |  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 125                |  |
| <b>Minimum ranking score required for element 7300 = 60</b>             |            |  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |
|   | 7400       | <b>Familiarisation, Additional Green Award Requirement</b>   | 0      |              | 0  |              | 0            |              | 0           |              | 0              |              | 0                |              | 0               |              | 0                  |              |                |               |                    |  |
| M   | 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                 |  |
| M   | 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                 |  |
| M/RR  | 7400.3     | Are the senior officers retained to sail on the same vessel or the same type of vessel (Membrane or Spherical)?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
| RN/M  | 7400.6     | Are the junior officers retained to sail on the same vessel or the same type of vessel (Membrane or Spherical)?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
| M/RR  | 7400.4     | Are the company format handover reports from all off - signing officers available onboard?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
| N   | 7400.7     | Are the on-signers aware of the content of the hand-over reports?  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |  |
| <b>Total score</b>  |            |  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 80                 |  |
| <b>Minimum ranking score required for element 7400 = 50</b>             |            |  |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |  |



| CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2018 |            |   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
|---|------------|---|--------|--------------|--|--------------|--------------|--------------|-------------|--------------|----------------|--------------|------------------|--------------|-----------------|--------------|--------------------|--------------|----------------|---------------|--------------------|----|
| Revision Code   | Norm. Item |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h2 style="margin: 0;">RANKING</h2> <h3 style="margin: 0;">Ship - LNG</h3> </div> | MASTER | Doc. & Impl. | CHIEF OFFICER                              | Doc. & Impl. | DECK OFFICER | Doc. & Impl. | DECK RATING | Doc. & Impl. | CHIEF ENGINEER | Doc. & Impl. | ENGINEER OFFICER | Doc. & Impl. | ENGINEER RATING | Doc. & Impl. | CATERING PERSONNEL | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |    |
|   |            |   |        | <b>7500</b>  | <b>Safe Manning and Fatigue Management</b> | 0            |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
| M   | 7500.1     | Are work/rest hours performed by the individual seafarer recorded with the use of a software programme?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
| N   | 7500.3     | Are the work/rest hours reports generated and are accessible for the office ?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
| M   | 7500.2     | Is the master provided with instruction/procedure to monitor and address non compliance on STCW 2010 Manila amendments on work/rest hours onboard ?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
| N   | 7500.5     | Does the ship have fatigue management plan available onboard to ensure the health and the well being of the seafarers ?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
| N   | 7500.6     | Is the fatigue management plan integrated with the safety management system ?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
| N   | 7500.7     | Does the ship have a procedure in which crew members are able to report on fatigue related issues ?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
| N   | 7500.8     | Is the fatigue management plan implemented onboard by the master?   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
| <b>Total score</b>  |            |   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 60                 |    |
| <b>Minimum ranking score required for element 7500 = 40</b>             |            |   |        |              |  |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |



| CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2018 |   |   |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
|---|---|---|---|--|--|--|--|--|--|--|--|--|--------|--------------|---------------|--------------|--------------|--------------|-------------|--------------|----------------|--------------|------------------|--------------|-----------------|--------------|--------------------|--------------|----------------|---------------|--------------------|
| Revision Code   | Norm. Item  |  | <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h1 style="margin: 0;">RANKING</h1> <h2 style="margin: 0;">Ship - LNG</h2> </div> |  |  |  |  |  |  |  |  |  | MASTER | Doc. & Impl. | CHIEF OFFICER | Doc. & Impl. | DECK OFFICER | Doc. & Impl. | DECK RATING | Doc. & Impl. | CHIEF ENGINEER | Doc. & Impl. | ENGINEER OFFICER | Doc. & Impl. | ENGINEER RATING | Doc. & Impl. | CATERING PERSONNEL | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |
|   |   |   |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
| 9000  | <b>REQUIREMENTS ACCORDING TO NEN-EN ISO 9001:2000</b>                             |   |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
| 9401  | MANAGEMENT RESPONSIBILITY   | <b>Included in ISM: see BASIC criteria</b>  |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
| 9402  | QUALITY SYSTEM  | <b>Included in ISM: see BASIC criteria</b>  |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
| 9403  | CONTRACT REVIEW   | <b>Not Applicable</b>   |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
| 9404  | DESIGN CONTROL  | <b>Not Applicable</b>   |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
| 9405  | DOCUMENT CONTROL  | <b>Included in ISM: see BASIC criteria</b>  |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
| 9406  | PURCHASING  |   |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             | 0            | 20             |              |                  |              |                 |              |                    |              |                |               |                    |
| 9406.3  | Are order specifications drawn up clearly?  |   |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             | 0            | 20             |              |                  |              |                 |              |                    |              |                |               |                    |
| 9406.5  | Does shipboard personnel have a working procedure regarding ordering spare parts? |   |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             | 0            | 20             |              |                  |              |                 |              |                    |              |                |               |                    |
|   |   | <b>Total score</b>  |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             | 0            | 40             |              |                  |              |                 |              |                    |              |                |               |                    |
|   |   | <b>Minimum ranking score required for element 9406 = 40</b>                       |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
| 9407  | PURCHASER SUPPLIED PRODUCT  |   |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             | 0            | 20             |              |                  |              |                 |              |                    |              |                |               |                    |
| 9407.2  | Are the delivered goods immediately checked after delivery?                       |   |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             | 0            | 20             |              |                  |              |                 |              |                    |              |                |               |                    |
| 9407.3  | Are non-conformities of the delivered goods registered?                           |   |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             | 0            | 20             |              |                  |              |                 |              |                    |              |                |               |                    |
|   |   | <b>Total score</b>  |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             | 0            | 40             |              |                  |              |                 |              |                    |              |                |               |                    |
|   |   | <b>Minimum ranking score required for element 9407 = 40</b>                       |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
| 9408  | PRODUCT IDENTIFICATION AND TRACEABILITY   |   |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             | 0            | 20             |              |                  |              |                 |              |                    |              |                |               |                    |
| 9408.1  | Are working procedures available ? (Cargo, bunkers etc.)                          |   |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             | 0            | 20             |              |                  |              |                 |              |                    |              |                |               |                    |
| 9408.2  | Is product identification registered?   |   |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             | 0            | 20             |              |                  |              |                 |              |                    |              |                |               |                    |
|   |   | <b>Total score</b>  |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             | 0            | 40             |              |                  |              |                 |              |                    |              |                |               |                    |
|   |   | <b>Minimum ranking score required for element 9408 = 40</b>                       |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
| 9409  | PROCESS CONTROL   | <b>Included in ISM: see BASIC criteria</b>  |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |
| 9410  | INSPECTION AND TESTING  | <b>Included in ISM: see BASIC criteria</b>  |   |  |  |  |  |  |  |  |  |  |        |              |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |

| CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2018 |   |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
|---|---|---|--|---|---------------|--------------|--------------|--------------|-------------|--------------|----------------|--------------|------------------|--------------|-----------------|--------------|--------------------|--------------|----------------|---------------|--------------------|----|
| Revision Code   | Norm. Item  |  <div style="border: 1px solid black; padding: 10px; text-align: center;"> <h1 style="margin: 0;">RANKING</h1> <h2 style="margin: 0;">Ship - LNG</h2> </div> | MASTER                                     | Doc. & Impl.                                    | CHIEF OFFICER | Doc. & Impl. | DECK OFFICER | Doc. & Impl. | DECK RATING | Doc. & Impl. | CHIEF ENGINEER | Doc. & Impl. | ENGINEER OFFICER | Doc. & Impl. | ENGINEER RATING | Doc. & Impl. | CATERING PERSONNEL | Doc. & Impl. | NOT APPLICABLE | RANKING SCORE | RANKING MAX. SCORE |    |
|   |   |   | 9411                                       | <b>INSPECTION, MEASURING AND TEST EQUIPMENT</b> |               |              |              | 0            |             | 0            |                |              |                  | 0            |                 | 0            |                    |              |                |               |                    |    |
| 9411.1  | Is an overview of certificates of these apparatus available?                              |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 10 |
| <b>Total score</b>  |   |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 10                 |    |
| Minimum ranking score required for element 9411 = 10                    |   |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
| 9412  | <b>INSPECTION AND TEST STATUS</b>   |   |  |   | 0             |              |              |              |             |              | 0              |              |                  |              |                 |              |                    |              |                |               |                    |    |
| 9412.1  | Are working procedures available?   |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
| 9412.2  | Is a status quo report of for example, coating of tanks available?                        |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
| <b>Total score</b>  |   |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 40                 |    |
| Minimum ranking score required for element 9412 = 40                    |   |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
| 9413  | <b>CONTROL OF NON CONFORMING PRODUCT</b>  |   | <b>Included in ISM: see BASIC criteria</b> |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
| 9414  | <b>CORRECTIVE ACTION</b>  |   | <b>Included in ISM: see BASIC criteria</b> |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
| 9415  | <b>HANDLING, STORAGE, PACKAGING AND DELIVERY</b>  |   | 0  |   | 0             |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
| 9415.1  | Is a vessel generally checked in order to meet the customer's requirements?               |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
| 9415.2  | Are cargo/product specifics received from the company / customer?                         |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
| 9415.3  | Is communication between charterer, office and ship effective?                            |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 20 |
| <b>Total score</b>  |   |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 60                 |    |
| Minimum ranking score required for element 9415 = 60                    |   |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
| 9416  | <b>QUALITY RECORDS</b>  |   | <b>Included in ISM: see BASIC criteria</b> |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
| 9417  | <b>INTERNAL QUALITY AUDITS</b>  |   | <b>Included in ISM: see BASIC criteria</b> |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
| 9418  | <b>TRAINING</b>   |   | <b>Included in ISM: see BASIC criteria</b> |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
| 9419  | <b>SERVICING</b>  |   | <b>Not Applicable</b>                      |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |
| 9420  | <b>STATISTICS</b>   |   | 0  |   | 0             |              |              |              |             |              | 0              |              |                  |              |                 |              |                    |              |                |               |                    |    |
| 9420.1  | Is engine performance data available and sent to the company?                             |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
| 9420.2  | Is cargo operation performance data available and sent to the company?                    |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
| 9420.3  | Is crew performance data available and sent to the company?                               |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
| 9420.4  | Is periodical inspection and test data available and sent to the company?                 |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
| 9420.5  | Is environmental data available and sent to the company?                                  |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
| 9420.6  | Is nautical (hydrostatic, speed & meteorological) data available and sent to the company? |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               | 0                  | 5  |
| <b>Total score</b>  |   |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                | 0             | 30                 |    |
| Minimum ranking score required for element 9420 = 20                    |   |   |  |   |               |              |              |              |             |              |                |              |                  |              |                 |              |                    |              |                |               |                    |    |

| CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2018 |  |                         |  |                                   |                                   |
|---|--|-------------------------|--|-----------------------------------|-----------------------------------|
| Norm item   | TOTAL SCORE REVIEW<br>SHIP SURVEY - LNG CARRIER  | SHIP'S RANKING<br>SCORE | MAXIMUM<br>OBTAINABLE<br>RANKING SCORE | MINIMUM RANKING<br>SCORE REQUIRED | ELEMENTS WITH NO<br>MINIMUM SCORE |
| 1000  | <b>GENERAL</b>   |                         |  |                                   |                                   |
| 1100  | Data Monitoring and Recording Equipment / Data Providing Services  | 0                       | 25                                     | 0                                 |                                   |
| 1200  | Enclosed Space Entry & Hot Work  | 0                       | 80                                     | 80                                |                                   |
| 1300  | Compressor for the refilling of air cylinders for breathing apparatus or Alternative, Additional Green Award requirement | 0                       | 20                                     | 10                                |                                   |
| 1400  | Control of drugs & alcohol onboard   | 0                       | 30                                     | 30                                |                                   |
| 1500  | Emergency Response System  | 0                       | 80                                     | 60                                |                                   |
| 1600  | Computer Systems, Networks, Data Security and Training. GA requirement   | 0                       | 60                                     | 30                                |                                   |
| 1700  | Noise and Vibration Management   | 0                       | 50                                     | 15                                |                                   |
| 1710  | Underwater Noise and Vibration Management  | 0                       | 10                                     | 0                                 |                                   |
| 2000  | <b>NAVIGATION / BRIDGE OPERATIONS</b>  |                         |  |                                   |                                   |
| 2100  | Navigation   | 0                       | 120                                    | 40                                |                                   |
| 2111  | Electronic chart display & information systems / ECDIS   | 0                       | 55                                     | 30                                |                                   |
| 2120  | Fuel Change Over / Ballast Water Exchange  | 0                       | 20                                     | 20                                |                                   |
| 2200  | Helicopter / Ship Operations   | 0                       | 20                                     | 20                                |                                   |
| 2300  | Mooring Operations   | 0                       | 50                                     | 30                                |                                   |
| 3000  | <b>MACHINERY / ENGINE OPERATIONS</b>   |                         |  |                                   |                                   |
| 3100  | Bunker Operations  | 0                       | 50                                     | 50                                |                                   |
| 3200  | Fuel Oil Testing, Bunker Alerts, Marpol Bunkering Requirements & Additional Green Award requirements                     | 0                       | 100                                    | 70                                |                                   |
| 4000  | <b>CARGOES / CARGO OPERATIONS</b>  |                         |  |                                   |                                   |
| 4100  | LNG Carrier Cargo Operations & Additional Green Award requirements   | 0                       | 90                                     | 80                                |                                   |
| 4200  | Ship to Ship Transfer Operations   | 0                       | 30                                     | 30                                |                                   |
| 4400  | Additional Green Award Requirements (tank alarms, coatings, etc.)  | 0                       | 50                                     | 40                                |                                   |
| 4700  | LNG Sloshing Load Monitoring System  | 0                       | 50                                     | 0                                 |                                   |
| 5000  | <b>PREVENTION OF POLLUTION</b>   |                         |  |                                   |                                   |
| 5200  | Waste Management / Garbage Handling Onboard  | 0                       | 130                                    | 55                                |                                   |
| 5300  | Cargo Vapour Emission Control Systems  | 0                       | 105                                    | 70                                |                                   |
| 5400  | Management of Ship Engine Emissions  | 0                       | 140                                    | 10                                |                                   |
| 5420  | Sulphur Content of Fuel  | 0                       | 140                                    | 5                                 |                                   |
| 5460  | Environmental Ship Index (ESI)   | 0                       | 60                                     | 0                                 |                                   |
| 5500  | Sewage Management  | 0                       | 70                                     | 5                                 |                                   |
| 5510  | Grey Water Management  | 0                       | 25                                     | 0                                 |                                   |
| 5700  | Ballast Water Management   | 0                       | 100                                    | 50                                |                                   |
| 5800  | Accidental Bunker Oil Pollution Prevention Measures (overflow prevention systems)  | 0                       | 30                                     | 15                                |                                   |
| 5801  | Protective location of fuel and lubrication oil tanks  | 0                       | 70                                     | 20                                |                                   |
| 5810  | Stern tube lubrication   | 0                       | 60                                     | 15                                |                                   |
| 5811  | Mooring wire lubrication   | 0                       | 20                                     | 0                                 |                                   |
| 5812  | Deck equipment lubrication (use of oils)   | 0                       | 55                                     | 0                                 |                                   |
| 5820  | Management of bilge water and sludge handling onboard  | 0                       | 20                                     | 15                                |                                   |
| 5821  | Outfitting of bilge water system   | 0                       | 80                                     | 20                                |                                   |
| 5822  | Outfitting of sludge handling system   | 0                       | 35                                     | 5                                 |                                   |
| 5900  | Ship Recycling - Inventory of Hazardous Materials  | 0                       | 110                                    | 0                                 |                                   |

| CHECKLIST - RANKING CRITERIA - SHIP SURVEY - LNG CARRIER - VERSION 2018 |   |                      |                                  |                                |                                |
|---|---|----------------------|----------------------------------|--------------------------------|--------------------------------|
| Norm item   | TOTAL SCORE REVIEW<br>SHIP SURVEY - LNG CARRIER   | SHIP'S RANKING SCORE | MAXIMUM OBTAINABLE RANKING SCORE | MINIMUM RANKING SCORE REQUIRED | ELEMENTS WITH NO MINIMUM SCORE |
| 6000  | <b>MAINTENANCE / SURVEYS</b>  |                      |                                  |                                |                                |
| 6100  | <b>Programme of Inspections</b>   | 0                    | 60                               | 60                             |                                |
| 6110  | Critical and Stand-by Equipment   | 0                    | 30                               | 10                             |                                |
| 6200  | Mooring Equipment   | 0                    | 95                               | 65                             |                                |
| 6300  | Corrosion Prevention of Seawater Ballast Tanks  | 0                    | 70                               | 40                             |                                |
| 6400  | Condition Assessment Program, Maintenance Additional Green Award requirements             | 0                    | 120                              | 60                             |                                |
| 6500  | Certificates for Cargo Gear   | 0                    | 40                               | 40                             |                                |
| 7000  | <b>CREW</b>   |                      |                                  |                                |                                |
| 7200  | Extra personnel, Additional Green Award Requirement                                       | 0                    | 70                               | 30                             |                                |
| 7300  | Training / Courses for Personnel, Additional Green Award Requirements & IMO Model Courses | 0                    | 125                              | 60                             |                                |
| 7400  | Familiarisation, Additional Green Award Requirement                                       | 0                    | 80                               | 50                             |                                |
| 7500  | Safe Manning and Fatigue Management   | 0                    | 60                               | 40                             |                                |
| 9000  | <b>REQUIREMENTS ACCORDING TO NEN-EN ISO 9001:2000</b>                                     |                      |                                  |                                |                                |
| 9406  | <b>PURCHASING</b>   | 0                    | 40                               | 40                             |                                |
| 9407  | <b>PURCHASER SUPPLIED PRODUCT</b>   | 0                    | 40                               | 40                             |                                |
| 9408  | <b>PRODUCT IDENTIFICATION AND TRACEABILITY</b>  | 0                    | 40                               | 40                             |                                |
| 9411  | <b>INSPECTION, MEASURING AND TEST EQUIPMENT</b>   | 0                    | 10                               | 10                             |                                |
| 9412  | <b>INSPECTION AND TEST STATUS</b>   | 0                    | 40                               | 40                             |                                |
| 9415  | <b>HANDLING, STORAGE, PACKAGING AND DELIVERY</b>  | 0                    | 60                               | 60                             |                                |
| 9420  | <b>STATISTICS</b>   | 0                    | 30                               | 20                             |                                |
|   | <b>TOTAL SCORES</b>   | 0                    | 3250                             | 1625                           |                                |

**LEGEND**

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


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

## APPENDIX 5

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

(LMC-10)

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


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

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


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




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

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

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


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

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

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



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


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

## APPENDIX 6


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

(LMC-10)

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


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

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


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




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

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

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


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

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

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



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

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