
GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

Part N

Ships Carrying Liquefied Gases in Bulk

GUIDANCE

2009 AMENDMENT NO.1

Notice No.18 15th April 2009

Resolved by Technical Committee on 4th February 2009

AMENDMENT TO THE GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

“Guidance for the survey and construction of steel ships” has been partly amended as follows:

Part N SHIPS CARRYING LIQUEFIED GASES IN BULK

N4 CARGO CONTAINMENT

N4.10 Construction and Testing

N4.10.14 Gas-trial and Cargo Full Loading Test

Table N4.10.14-2 has been amended as follows.

Table N4.10.14-2 Survey Items of Full Loading Test

	Survey items
1. At loading operation ¹⁾	<ul style="list-style-type: none"> • Continuous loading rate • Proper operation of gas detection systems ⁴⁾ • Proper operation of cargo control and monitoring systems such as level gauging equipment, temperature sensors, pressure gauges, cargo pumps, compressors and cargo heat exchangers ⁴⁾ • Proper operation of over-flow control systems ⁴⁾ • Proper operation of nitrogen generating plants or inert gas generators and pressure control systems for insulation, interbarrier and annular spaces ⁴⁾ • Proper operation of cofferdam heating systems, if fitted ⁴⁾ • Proper operation of reliquefaction plants, if fitted ⁴⁾ • Proper operation of equipment fitted for the burning of cargo vapours ⁴⁾ • On-deck cargo piping system • Topping off process for cargo tanks including proper operation of high level alarms
2. Condition of cargo tanks and other cargo containment systems After full loading or during voyage ²⁾	<ul style="list-style-type: none"> • Cargo tanks and supports • Hull adjacent to cargo tanks (cold spot) • Insulation capacity of cargo tanks and supports (cold spot) • Atmosphere in hold spaces • <u>Capacity of pressure/temperature indicator</u>
3. During voyage ²⁾	<ul style="list-style-type: none"> • Insulation capacity of cargo tanks and supports (cold spot) • Cold spot on the construction adjacent to cargo tanks • Capacity of pressure/temperature indicator

<p>43. At discharging operation³⁾</p>	<ul style="list-style-type: none"> • Emergency shutdown system testing prior to commencement of unloading • Discharging rate • Conditions of related installations such as those listed in 1. • On membrane vessels, verification that the readings of the cofferdam and inner hull temperature sensors are not below the allowable temperature for the selected grade of steel • On-deck cargo piping system • Other operation of discharging • Submission/Survey of related records such as cold spot examination records⁶⁾, cargo logs, operation logs of installations related to cargo operations and alarm reports where no attendance during the cargo loaded voyage of 32.
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Note:

- 1) Priority is to be given to latter stages of loading (approximately last 6 hours).
- 2) May be exempted from ~~witness~~ the presence of the Surveyors. In such cases, each survey item is to be recorded in order that the Surveyors can check this record.
- 3) Priority is to be given to the commencement of unloading (approximately first 4-6 hours).
- 4) Overall inspection may be accepted where an installation are not in operation.
- 5) In case where implementation is difficult, the verification of operation may be made by suitable other method.
- 6) Surveyors are to check the sampling of cold spot records, if possible.

N6 MATERIALS OF CONSTRUCTION

N6.1 General

Paragraph N6.1.4 has been added as follows.

N6.1.4 Impact Test

The wording “To be in accordance with Recognized Standard” referred to in the requirements given **6.1.4-1, Part N of the Rules** means to refer to **note (6) of Table K4.28.**

EFFECTIVE DATE AND APPLICATION

1. The effective date of the amendments is 15 April 2009.