

# **RULES FOR CENTRALIZED CARGO MONITORING AND CONTROL SYSTEMS**

**Rules for Centralized Cargo Monitoring and Control Systems**  
**2016 AMENDMENT NO.1**

Rule No.42      30th June 2016  
Resolved by Technical Committee on 28th July 2015  
Approved by Board of Directors on 14th September 2015

**ClassNK**  
NIPPON KAIJI KYOKAI

Rule No.42 30th June 2016

## AMENDMENT TO THE RULES FOR CENTRALIZED CARGO MONITORING AND CONTROL SYSTEMS

“Rules for centralized cargo monitoring and control systems” has been partly amended as follows:

### Chapter 3 CENTRALIZED CARGO MONITORING AND CONTROL SYSTEMS

Table 3.3 has been amended as follows.

Table 3.3 Loading Monitoring (for Ships Carrying Liquefied Gases in Bulk)

Monitored Targets		Indicators	Alarms	Records	Remarks
Pressure	Cargo tanks	○	H, L		
	Outlet side of cargo pumps and spray pumps	○			
	Inlet sides and outlet sides of ballast pumps	○			
	Hold spaces		H, L		
	Shore manifold headers	○			
Level	Cargo tanks	○	H, HH, L		
	Ballast tanks	○	L		
	FPT, APT	○	L		
Pump	Emergency stops of cargo pumps and spray pumps		S		ESDS
	Ballast pumps		S		
	Ampere of cargo pump and spray pumps	○	S		detection of over current and lower current is acceptable
Gas compressor	Temperatures of outlet gases, L.O. for bearings and stuffing boxes, bodies of stuffing boxes	○	H		similar measures are acceptable in cases other than stuffing boxes with L.O.
	Pressures of L.O. for bearings and stuffing boxes		L		
	Emergency stop of gas compressors		S		ESDS
Others	Draft of Fore, Aft, Middle	○			
	Hold space bilge		H		
	Gas concentrations	○	H		location specified in <b>13.6.72, Part N of the Rules for the Survey and Construction of Steel Ships.</b>
	Location of piping system valves	○			open/close or open angle indication
	Inert gases, O <sub>2</sub> concentrations	○	H	R	
	Ventilation in the cargo machinery rooms and motor rooms		F		
	Calculation results of loading computers (indicated on loading computer)	○			installation location of loading computer is to be the cargo control room or a work division that is adjacent to the cargo control room
	Failures of Control power, Control system hydraulic pressure, Control system air pressure		F		

## EFFECTIVE DATE AND APPLICATION

1. The effective date of the amendments is 1 July 2016.
2. Notwithstanding the amendments to the Rules, the current requirements may apply to ships the keels of which were laid or which were at *a similar stage of construction* before the effective date.

(Note) The term “*a similar stage of construction*” means the stage at which the construction identifiable with a specific ship begins and the assembly of that ship has commenced comprising at least 50 *tonnes* or 1% of the estimated mass of all structural material, whichever is the less.