Amended Guidances for the Classification of Steel Ships

(Part 9 Additional Installations)

Dec. 2019



KR

Effective Date: 1 January 2020

- (1) The contract date for ship construction or an application date for certification of an engine)

 reflected IACS UR M35(Rev.8 Jan 2019) and M36(Rev.6 Dec 2018)
 - The requirements for alarm of high oil mist concentrations in the crankcase have been amended to alarm the operation of the oil mist detection device or the bearing lubricant outlet temperature or the operation of the bearing temperature monitoring device.

Present	Amendment
CHAPTER 3 AUTOMATIC AND REMOTE CONTROL SYSTEMS	CHAPTER 3 AUTOMATIC AND REMOTE CONTROL SYSTEMS
Section 1 - 2 <same as="" present="" rules="" the=""></same>	Section 1 - 2 <same as="" present="" rules="" the=""></same>
Section 3 Centralized Monitoring and Control Systems for Main Propulsion and Essential Auxiliary Machinery	Section 3 Centralized Monitoring and Control Systems for Main Propulsion and Essential Auxiliary Machinery
301 304. <same as="" present="" rules="" the=""></same>	301 304. <same as="" present="" rules="" the=""></same>
305. Automatic and remote control of main propulsion machinery or controllable pitch propellers [See Guidance]	305. Automatic and remote control of main propulsion machinery or controllable pitch propellers [See Guidance]
1 4. <same as="" present="" rules="" the=""></same>	1 4. <same as="" present="" rules="" the=""></same>
Table 9.3.1 Crosshead diesel engines <u>(2017)</u> Table 9.3.2 Trunk piston diesel engines <u>(2017)</u>	Table 9.3.1 Crosshead diesel engines (2020) Table 9.3.2 Trunk piston diesel engines (2020)
306. <same as="" present="" rules="" the=""></same>	306. <same as="" present="" rules="" the=""></same>

<Amendments>

Table 9.3.1 Crosshead diesel engines (2017)(2020)

	*								
Systems	Monitored parameters [H: High L: Low O: Abnormal status]		AA	RI	Auto slow down with alarm	by	with alarm		Notes [AA = Alarm Activation RI = Remote Indication* ●=apply]
Sensors	Common or separate		С	С	С	S	s	c =	common; s = separate
Lubri- cating oil	Oil mist concentration in crankcase - H or Main, crank, crosshead bearing temp. (or bearing oil outlet temp) H Activation of oil mist detection arrangements (or activation of the temperature monitoring systems or equivalent devices of: - the engine main, crank and crosshead bearing oil outlet; or - the engine main, crank and crosshead bearing)	₩ <u>O</u>	•		•			1	engines having power ≥ 2250 or cylinder bore > 300 m m $^{(1)}$

<Amendments>

Table 9.3.2 Trunk piston diesel engines (2017)(2020)

Systems	Monitored parameters [H: High L: Low O: Abnormal	status]	AA	RI	Auto slow down with alarm	Auto start of Stand by pump with alarm	Auto shut down with alarm	Notes [AA = Alarm Activation RI = Remote Indication*
Sensors	Common or separate		С	С	С	S	S	c = common; s = separate
	Oil mist in crankease, mist concentration(II) or main & connecting rod bearing temp. (or oil outlet temp.) (II) or an equivalent device Activation of oil mist detection arrangements (or activation of the temperature monitoring systems or equivalent devices of: - the engine main and crank bearing oil outlet; or - the engine main and crank bearing)	I 	•				•	Only for medium speed engines having power ≥ 2250 kW or cylinder bore > 300 mm. Single sensor: for each engine, one oil mist detector (or engine bearing temperature monitoring system or equivalent device) having two independent outputs for initiating alarm and for shutdown will satisfy independence of alarm and shut-down systems. (1) An equivalent device could be interpreted as measures applied to high speed engines where specific design features to preclude the risk of crankcase explosions are incorporated.

Present	Amendment
307. Automatic and remote control of electric generating sets	307. Automatic and remote control of electric generating sets
1 4. <same as="" present="" rules="" the=""></same>	1 4. <same as="" present="" rules="" the=""></same>
Table 9.3.8 Auxiliary diesel engines and auxiliary turbines (2017)	Table 9.3.8 Auxiliary diesel engines and auxiliary turbines (2020)
308 310. <same as="" present="" rules="" the=""></same>	308 310. <same as="" present="" rules="" the=""></same>
Section 4 - 5 <same as="" present="" rules="" the=""></same>	Section 4 - 5 <same as="" present="" rules="" the=""></same>

<Amendments>

Table 9.3.8 Auxiliary diesel engines and auxiliary turbines (2017)(2020)

Engine	System	Monitored parameters [H: High L: Low O: Abnostatus]	rmal	AA	RI	Auto start of Stand by pump with alarm	Auto shut down with alarm	Notes [AA = Alarm Activation RI = Remote Indication*
Diesel Engine	Lubricating oil	Oil mist in crankcase, mist concentration(II) or main & connecting rod bearing temp. (or oil outlet temp.) (II) or an equivalent device. Activation of oil mist detection arrangements (or activation of the temperature monitoring systems or equivalent devices of: - the engine main and crank bearing oil outlet; or - the engine main and crank bearing)	# <u>O</u>	•			•	Only for medium speed engines having power ≥ 2250 kW or cylinder bore > 300 mm. Single sensor: for each engine, one oil mist detector (or engine bearing temperature monitoring system or equivalent device) having two independent outputs for initiating alarm and for shutdown will satisfy independence of alarm and shut-down systems. (1) An equivalent device could be interpreted as measures applied to high speed engines where specific design features to preclude the risk of crankcase explosions are incorporated.

Amended Guidances for the Classification of Steel Ships (Part 9 Additional Installations)

Dec. 2019



KR

Effective Date: 1 January 2020

(1) The contract date for ship construction)

• The requirement for equivalence has been amended in accordance with the amendment to Part 1 of the Rules.

Present	Amendment
CHAPTER 3 AUTOMATIC AND REMOTE CONTROL SYSTEMS	CHAPTER 3 AUTOMATIC AND REMOTE CONTROL SYSTEMS
Section 2 Surveys of Automatic and Remote Control Systems	Section 2 Surveys of Automatic and Remote Control Systems
201. General	201. General
1. Preparation for surveys and others [See Rule] In application to 201. 3 (1) of the Rules, the term "a standard deemed appropriate by the Society" means the acceptance in accordance with Pt 1, Ch 1, 104. or 105. of the Guidance.	 Preparation for surveys and others [See Rule] In application to 201. 3 (1) of the Rules, the term "a standard deemed appropriate by the Society" means the acceptance in accordance with Pt 1, Ch 1, 104. or 105. 202. <same as="" present="" rules="" the=""></same>
 202. <same as="" present="" rules="" the=""></same> 203. Shop tests 1. <same as="" present="" rules="" the=""></same> 2. Shop tests of automatic systems [See Rule] In application to 203. 2 (1) (E) of the Rules, the term "Other tests considered necessary by the Society" means the acceptance in accordance with Pt 1, Ch 1, 104. or 105. of the Guidance. 	in accordance with Pt 1, Ch 1, 104. or 105. of the Rules.
204 208. <same as="" present="" rules="" the=""></same>	204 208. <same as="" present="" rules="" the=""></same>

Present	Amendment
Section 3 Centralized Monitoring and Control Systems for Main Propulsion and Essential Auxiliary Machinery	Section 3 Centralized Monitoring and Control Systems for Main Propulsion and Essential Auxiliary Machinery
302. System design	302. System design
1. Control systems [See Rule]	1. Control systems [See Rule]
In application to 302. 4 (7) of the Rules, the term "other measures considered appropriate by the Society" means the acceptance in accordance with Pt 1 , Ch 1 , 104. or 105. of the <u>Guidance.</u>	measures considered appropriate by the Society" means the ac-
2. <same as="" present="" rules="" the=""></same>	2. <same as="" present="" rules="" the=""></same>
	303 305. <same as="" present="" rules="" the=""> 306. Automatic and remote control of boilers</same>
1. General [See Rule]	1. General [See Rule]
In application to 306. 1 (3) of the Rules, the term "deemed appropriate by the Society" means the acceptance in accordance with Pt 1, Ch 1, 104. or 105. of the <u>Guidance.</u>	
2. Automatic combustion control systems	2. Automatic combustion control systems
 (1) In application to 306. 2 (2) (F) of the Rules, the term "as deemed appropriate by the Society" means the acceptance in accordance with Pt 1, Ch 1, 104. or 105. of the Guidance. [See Rule] (2) In application to 306. 2 (4) of the Rules, the term "deemed appropriate by the Society" means the acceptance in accordance with Pt 1, Ch 1, 104. or 105. of the Guidance. [See Rule] 	deemed appropriate by the Society" means the acceptance in accordance with Pt 1, Ch 1, 104. or 105. of the Rules. [See Rule] (2) In application to 306. 2 (4) of the Rules, the term "deemed

Present	Amendment
Section 5 Specific Automatic Equipment	Section 5 Specific Automatic Equipment
502. Class 1 specific automation equipment	502. Class 1 specific automation equipment
1 2. <same as="" present="" rules="" the=""></same>	1 2. <same as="" present="" rules="" the=""></same>
3. Automatic steering system [See Rule]	3. Automatic steering system [See Rule]
In application to 502. 2 (11) of the Rules, the term "Any other items considered necessary by the Society" means the acceptance in accordance with Pt 1, Ch 1, 104. or 105. of the Guidance.	er items considered necessary by the Society" means the ac
4 7. <same as="" present="" rules="" the=""></same>	4 7. <same as="" present="" rules="" the=""></same>

Present	Amendment					
CHAPTER 5 NAVIGATION BRIDGE SYSTEMS	CHAPTER 5 NAVIGATION BRIDGE SYSTEMS					
Section 2 Surveys of Navigation Bridge Systems	Section 2 Surveys of Navigation Bridge Systems					
202. Classification Survey	202. Classification Survey					
1. Drawings and data [See Rule]	1. Drawings and data [See Rule]					
In application to 202. 1 (1) (E) of the Rules, the term "Other drawings and data deemed necessary by the Society" means the acceptance in accordance with Pt 1, Ch 1, 104. or 105. of the <u>Guidance.</u>	drawings and data deemed necessary by the Society" means the					
2. Shop tests [See Rule]	2. Shop tests [See Rule]					
In application to 202. 2 (J) of the Rules, the term "Other equipment deemed necessary by the Society" means the acceptance in accordance with Pt 1, Ch 1, 104. or 105. of the <u>Guidance.</u>	equipment deemed necessary by the Society" means the accept-					
203. Survey Assigned to Maintain Classification	203. Survey Assigned to Maintain Classification					
1. Annual survey [See Rule]	1. Annual survey [See Rule]					
In application to 203. 2 (1) (B) (f) of the Rules, the term "Other equipment deemed necessary by the Society" means the acceptance in accordance with Pt 1 , Ch 1 , 104. or 105. of the Guidance.	"Other equipment deemed necessary by the Society" means the					
Section 5 <same as="" present="" rules="" the=""></same>	Section 5 <same as="" present="" rules="" the=""></same>					

Present	Amendment
Section 6 Bridge Work Assist Systems	Section 6 Bridge Work Assist Systems
602. Bridge Work Assist Systems	602. Bridge Work Assist Systems
1. <same as="" present="" rules="" the=""></same>	1. <same as="" present="" rules="" the=""></same>
2. Bridge information system [See Rule]	2. Bridge information system [See Rule]
In application to 602. 2 (E) of the Rules, the term "Other functions deemed necessary by the Society" means the acceptance in accordance with Pt 1, Ch 1, 104. or 105. of the Guidance.	functions deemed necessary by the Society" means the accept-
3. <same as="" present="" rules="" the=""></same>	3. <same as="" present="" rules="" the=""></same>
4. Auto tracking system [See Rule]	4. Auto tracking system [See Rule]
In application to 602. 4 (G) of the Rules, the term "Other functions deemed necessary by the Society" means the acceptance in accordance with Pt 1, Ch 1, 104. or 105. of the Guidance.	functions deemed necessary by the Society" means the accept-