Performance Tests for Hatch Covers

Object of Amendment

Rules for the Survey and Construction of Steel Ships Part B

Reason for Amendment

Requirements related to performance tests for hatch covers specified in Part B of the Rules for the Survey and Construction of Steel Ships Part B are based on the IACS UR Z10 series.

Relevant requirements are, therefore, amend to clarify the correspondence of wording between of Part B of the Rule and IACS UR Z10 series.

Outline of the Amendment

Specify wording that performance tests for mechanically operated hatch covers are to be carried out using a method that allows verification of satisfactory operation throughout the full extent of both the opening and closing directions.

Effective Date and application

Effective date of this amendment is [the date of establishment].

An asterisk (*) after the title of a requirement indicates that there is also relevant information in the corresponding Guidance.

ID: DH24-08

Amended	Original	Remarks
RULES FOR THE SURVEY AND	RULES FOR THE SURVEY AND	
CONSTRUCTION OF STEEL SHIPS	CONSTRUCTION OF STEEL SHIPS	
Part B CLASS SURVEYS	Part B CLASS SURVEYS	
Chapter 3 ANNUAL SURVEYS	Chapter 3 ANNUAL SURVEYS	
3.2 Annual Surveys for Hull, Equipment, Fire Extinction, Computer-based Systems and Fittings	3.2 Annual Surveys for Hull, Equipment, Fire Extinction, Computer-based Systems and Fittings	
3.2.3 Performance Tests* At Annual Surveys, performance tests listed in Table B3.3 are to be carried out.	3.2.3 Performance Tests* At Annual Surveys, performance tests listed in Table B3.3 are to be carried out.	

Table B3 3 Per			Original			Remarks
Table B3.3 Performance Tests			Table B3.3 Performance Tests			
Items	Tests		Items		Tests	
1 Weathertight hatch covers	(1) Hose test (when deemed necessary by the Surveyor) (2) Random checking of the satisfactory operation of mechanically operated hatch covers including hydraulic and power components, wires, chains and link drives (3) For mechanically operated hatch covers on bulk carriers, hatch cover sets within the forward 0.25 Lf and at least one additional set, including hydraulic and power components, wires, chains and link drives, are to be checked for satisfactory operation throughout the full extent of both the opening and closing directions, and all sets on the ship are checked at least once every 5 years between Special Surveys		1 Weathertight hatch covers	(1) (2) (3)	Hose test (when deemed necessary by the Surveyor) Random checking of the satisfactory operation of mechanically operated hatch covers including hydraulic and power components, wires, chains and link drives For mechanically operated hatch covers on bulk carriers, hatch cover sets within the forward 0.25 <i>Lf</i> and at least one additional set, including hydraulic and power components, wires, chains and link drives, are to be checked for satisfactory operation so that all sets on the ship are checked at least once every 5 <i>years</i> between special surveys	IACS UR Z10.2 / 3.2.3.2 IACS UR Z10.5 / 3.2.3.2

	Amended		Remarks	
	ERMEDIATE SURVEYS	Chapter 4 IN	Original TERMEDIATE SURVEYS	
4.2 Intermediate Surveys for Hull, Equipment, Fire Extinction, Computer-based Systems and Fittings			rveys for Hull, Equipment, Fire puter-based Systems and Fittings	
4.2.3 Performance T At Intermediate Su Table B4.1 are to be carried	rveys, performance tests listed in	4.2.3 Performance At Intermediate S Table B4.1 are to be carry	Surveys, performance tests listed in	
Table B4.1	Performance Test	Table B4.	.1 Performance Test	
Items	Tests	Items	Tests	
	(Omitted)		(Omitted)	
12 Closing appliances of openings related to fire fighting in way of	(1) Confirmation that closing appliances work in order is to be made.	12 Closing appliances of openings related to fire fighting in way of cargo holds	(1) Confirmation that closing appliances work in order is to be made.	
cargo holds		Additional Requirements for Bul		
Additional Requirements for Bu	ilk Carriers	13 Mechanically operated hatch covers	 (1) Confirmation that hatch cover sets within the forward 0.25L_f and at least one additional set work in good order is to be carried out. The method is to be in a way that ensures all sets on the ship are checked at least once every 5 years between special surveys. (2) Confirmation that all hatch covers work in good order is to be carried out for ships over 10 years of age. 	IACS UR Z10.2 / 4.1.2 IACS UR Z10.5 / 4.1.2
		14 Weathertight hatch covers 15 Water level detection and alarm systems	(1) Hose tests or equivalent, for all hatch covers for ships over 10 years of age. (1) Confirmation that the systems work in order is to be made for ships over 10 years of age.	

	Amended	Original	Remarks
13 Mechanically operated hatch covers	(1) Confirmation that hatch cover sets within the forward $0.25L_{\rm f}$ and at least one additional set, including hydraulic and power components, wires, chains and link drives, are checked for satisfactory operation throughout the full extent of both the opening and closing directions. The confirmation method is to be in a way that ensures all sets on the ship are checked at least once every 5 years between Special Surveys. (2) Confirmation that all hatch covers work in good order is to be carried out for ships over 10 years of age.		
14 Weathertight hatch covers	(1) Hose tests or equivalent, for all hatch covers for ships over 10 <i>years</i> of age.		
15 Water level detection and alarm systems	(1) Confirmation that the systems work in order is to be made for ships over 10 <i>years</i> of age.		

Amended	Original	Remarks
Chapter 5 SPECIAL SURVEYS	Chapter 5 SPECIAL SURVEYS	Remarks
Chapter 5 STECIAL SURVETS	Chapter 5 STECIAL SURVETS	
5.2 Special Surveys for Hull, Equipment, Fire		
Extinction, Computer-based Systems and Fittings	Extinction, Computer-based Systems and Fittings	
5.2.3 Performance Test*	5.2.3 Performance Test*	
1 At Special Surveys, performance tests specified in	1 At Special Surveys, performance tests specified in	
4.2.3 are to be carried out. In addition to such performance	4.2.3 are to be carried out. In addition to such performance	
tests, it is to be confirmed that the loading instrument	tests, it is to be confirmed that the loading instrument	
required in 3.8.1.1, Part 1, 3.2.2.1, Part 2-2 and 3.2.2.1,	required in 3.8.1.1, Part 1, 3.2.2.1, Part 2-2 and 3.2.2.1,	
Part 2-3, Part C works in order. Moreover, the performance	Part 2-3, Part C works in order. Moreover, the performance	
tests for mooring and anchoring arrangements specified in	tests for mooring and anchoring arrangements specified in	
item 3 of Table B4.1 may not be omitted.	item 3 of Table B4.1 may not be omitted.	
2 In addition to -1 above, the performance tests and	2 In addition to -1 above, the performance tests and	
operation tests specified in (1) to (10) below are to be carried	operation tests specified in (1) to (10) below are to be carried	
out.	out.	
(1) Operation tests for all mechanically operated hatch	(1) Operation test for all mechanically operated hatch	
covers, including the testing of all hydraulic and	covers, including the testing of all hydraulic and	
power components, wires, chains and link drives. In	power components, wires, chains and link drives	IACS UR Z10.2 /
addition, the mechanically operated hatch covers of bulk carriers are to be checked for satisfactory		2.2.4.2 IACS UR Z10.5 / 2.2.4.2
operation throughout the full extent of both the		/ 2.2.4.2
opening and closing directions		
(2) Hose tests or equivalent, for all weathertight hatch	(2) Hose tests or equivalent, for all weathertight hatch	
covers	covers	
(3) Performance tests and operation tests for all bilge	(3) Performance tests and operation tests for all bilge	
and ballast piping system	and ballast piping system	
(4) Hose tests or equivalent, for all bow doors, inner	(4) Hose tests or equivalent, for all bow doors, inner	
doors, side shell doors and stern doors	doors, side shell doors and stern doors	
(5) The hose tests or equivalent tests, for the doors of		
watertight bulkheads and the closing appliances of	· · ·	
superstructure end bulkheads, deckhouses or	superstructure end bulkheads, deckhouses or	

	Amended-Original Requirements Comparison Table (Performance Tests for Hatch Covers)					
	Amended		Original	Remarks		
	companions protecting hatchways giving access to		companions protecting hatchways giving access to			
	spaces below freeboard deck		spaces below freeboard deck			
(6)	For oil tankers and ships carrying dangerous	(6)	For oil tankers and ships carrying dangerous			
	chemical in bulk, performance tests and operation		chemical in bulk, performance tests and operation			
	tests of cargo and ballast piping systems within all		tests of cargo and ballast piping systems within all			
	cargo tanks, all ballast tanks and all tanks and spaces		cargo tanks, all ballast tanks and all tanks and spaces			
	bounding cargo tanks such as pump rooms, pipe		bounding cargo tanks such as pump rooms, pipe			
	tunnels, cofferdams and void spaces, and on the		tunnels, cofferdams and void spaces, and on the			
	weather deck		weather deck			
(7)	For ships carrying liquefied gases in bulk,	(7)	For ships carrying liquefied gases in bulk,			
	performance test and operation test of cargo and		performance test and operation test of cargo and			
	ballast piping systems within all cargo tanks, all		ballast piping systems within all cargo tanks, all			
	ballast tanks and all tanks and spaces bounding cargo		ballast tanks and all tanks and spaces bounding cargo			
	tanks such as pump rooms, cargo compressor rooms,		tanks such as pump rooms, cargo compressor rooms,			
	pipe tunnels, cofferdams and void spaces, and on		pipe tunnels, cofferdams and void spaces, and on			
(0)	weather deck	(0)	weather deck			
(8)	For bulk carriers and general dry cargo ships of 500	(8)	For bulk carriers and general dry cargo ships of 500			
	gross tonnage, performance test and operation test of		gross tonnage, performance test and operation test of			
	all piping systems within cargo holds, all ballast tanks and all tanks and spaces bounding cargo holds		all piping systems within cargo holds, all ballast tanks and all tanks and spaces bounding cargo holds			
	such as pipe tunnels, cofferdams, void spaces, and		such as pipe tunnels, cofferdams, void spaces, and			
	other similar spaces bounding cargo holds, and those		other similar spaces bounding cargo holds, and those			
	on weather decks		on weather decks			
(9)	Performance tests listed in item 1 of Table B4.1, for	(9)	Performance tests listed in item 1 of Table B4.1, for			
()	all water level detection and alarm systems.		all water level detection and alarm systems.			
(10)	Performance test for the means of embarkation and	(10)	•			
. ,	disembarkation, for ships not less than 500 gross		disembarkation, for ships not less than 500 gross			
	tonnage which are engaged on international voyages.		tonnage which are engaged on international voyages.			
	EFFECTIVE DATE AND APPLICATION					
1.						