

Training of Personnel for In-water Survey Firms

Object of Amendment

Rules for Approval of Manufacturers and Service Suppliers

Reason for Amendment

IACS Unified Requirement (UR) Z17 specifies requirements for the approval of service suppliers, and it has already been incorporated into the Society's Rules for Approval of Manufacturers and Service Suppliers.

For firms carrying out in-water surveys, the training requirements had been specified on the premise of in-water surveys of the external hull surveys. IACS, however, recently reviewed said requirements and revised them to clearly distinguish between requirements applicable to external hull surveys and those applicable to internal surveys.

In addition, requirements for close-up surveys conducted by in-water surveys using Remote Inspection Techniques were also revised so that the requirements for in-water surveys of the hull exterior are not applied.

Accordingly, relevant requirements are amended based on UR Z17(Rev.22).

Outline of the Amendment

The main amendments are as follows:

- (1) Training of personnel for in-water survey firms conducting internal surveys
Based on UR Z17(Rev.22), requirements applicable to personnel engaged in external hull surveys and personnel engaged in internal surveys are distinguished and specified separately.
- (2) Harmonisation and clarification of related requirements for close-up surveys firms using remote inspection techniques
Requirements for firms conducting in-water close-up surveys using Remote Inspection Techniques are amended so that the requirements for external hull in-water surveys do not apply. Additionally, for firms conducting thickness measurements using Remotely Operated Vehicles, it is clarified that an approval certificate in accordance with Chapter 2 (Thickness measurement) is also required in addition to approval under Chapter 16 (Remote inspection techniques).

Effective Date and application

Effective date of this amendment is 1 January 2027.

ID:DH25-17

Amended-Original Requirements Comparison Table (Training of Personnel for In-water Survey Firms)

Amended	Original	Remarks
RULES FOR APPROVAL OF MANUFACTURERS AND SERVICE SUPPLIERS Part 3 REQUIREMENTS FOR APPROVAL OF SERVICE SUPPLIERS Chapter 3 FIRMS CARRYING OUT AN IN-WATER SURVEY ON SHIPS AND MOBILE OFFSHORE UNITS BY DIVER OR REMOTELY OPERATED VEHICLE 3.2 Quality System 3.2.2 Training Procedures The documented training procedures specified in 1.2.2 are to at least include information on ways to acquire knowledge about the following items: (1) <u>for personnel engaged in external hull surveys</u> (a) Ship <u>or</u> MOU underwater structure and appendages (including propeller shafts, propeller, rudders and their bearings, etc.); (b) Ship terminology in English; (c) Underwater non-destructive testing in accordance with <u>recognised</u> national or international industrial NDT standards accepted by the Society. (This only applies to firms carrying <u>out</u> in-water surveys of ships which	RULES FOR APPROVAL OF MANUFACTURERS AND SERVICE SUPPLIERS Part 3 REQUIREMENTS FOR APPROVAL OF SERVICE SUPPLIERS Chapter 3 FIRMS CARRYING OUT AN IN-WATER SURVEY ON SHIPS AND MOBILE OFFSHORE UNITS BY DIVER OR REMOTELY OPERATED VEHICLE 3.2 Quality System 3.2.2 Training Procedures The documented training procedures specified in 1.2.2 are to at least include information on ways to acquire knowledge about the following items: (1) Ship underwater structure and appendages (including propeller shafts, propeller, rudders and their bearings, etc.);_ (2) Ship terminology in English; (3) Underwater non-destructive testing in accordance with <u>recognized</u> national or international industrial NDT standards accepted by the Society. (This only applies to firms carrying <u>outs</u> in-water surveys of ships which also perform non-destructive testing.);	UR Z17 ANNEX1 3.2.1, 3.2.2 MOU: Mobile Offshore Units Under the current Rules, item (1) is maintained as applicable to cases where personnel are engaged in the inspection of the external hull. (2) In cases where personnel are engaged in

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Amended	Original	Remarks
also perform non-destructive testing.); (d) Bearing clearance measurements for rudders and propeller shafts; (e) Underwater video monitoring with TV-monitors on deck, as well as still picture work; (f) Operation of underwater communication systems; (g) Certification as a thickness measurement firm, <u>where thickness measurements are carried out underwater;</u> (h) Other special equipment and tools used for in-water surveys; and (i) Society requirements related to in-water surveys. (2) <u>for personnel engaged in internal surveys of compartments filled with water</u> <u>(a) Ship or MOU internal structure (including piping systems, tank coating and access provisions, etc.);</u> <u>(b) Ship terminology in English;</u> <u>(c) Underwater non-destructive testing in accordance with recognised national or international industrial NDT standards accepted by the Society. (This only applies to firms carrying out in-water surveys of ships which also perform non-destructive testing.);</u> <u>(d) Underwater video monitoring with TV-monitors on deck, as well as still picture work;</u> <u>(e) Operation of underwater communication systems;</u> <u>(f) Certification as a thickness measurement firm, where thickness measurements are carried out underwater;</u>	(4) Bearing clearance measurements for rudders and propeller shafts; (5) Underwater video monitoring with TV-monitors on deck, as well as still picture work; (6) Operation of underwater communication systems; (7) Certification as a thickness measurement firm <u>when conducting thickness measurements under water</u> (8) Other special equipment and tools used for in-water surveys; and (9) Society requirements related to in-water surveys.	internal inspection, measurement of the bearing clearances of the propeller shaft and rudder is not required; however, knowledge of internal structures, piping systems, tank coatings, and means of access is required.

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(g) Other special equipment and tools used for in-water surveys; and (h) Society requirements related to in-water surveys. Chapter 4 FIRMS ENGAGED IN INSPECTION AND TESTING OF RADIO COMMUNICATION EQUIPMENT 4.2 Quality System 4.2.3 Reference Documents The supplier is to have access to the documents listed in the following (1) to (9): (1) (Omitted) (2) <u>MSC.349(92)</u> (as amended); (3) <u>MSC/Circ.1040/Rev.2</u> (as amended); ((4) to (9) are omitted.)	Chapter 4 FIRMS ENGAGED IN INSPECTION AND TESTING OF RADIO COMMUNICATION EQUIPMENT 4.2 Quality System 4.2.3 Reference Documents The supplier is to have access to the documents listed in the following (1) to (9): (1) (Omitted) (2) <u>A.789(19)</u> (as amended); (3) <u>MSC/Circ.1040/Rev.1</u> (as amended); ((4) to (9) are omitted.)	(2) As A.789(19) has become invalid due to the issuance of the RO Code (IMO Resolution MSC.349(92)), it is to be revised. (3) As Revision 2 has been issued in accordance with UR Z17 ANNEX 1, 6.2, it is to be revised.

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Chapter 16 FIRMS ENGAGED IN SURVEY USING REMOTE INSPECTION TECHNIQUES AS AN ALTERNATIVE MEANS FOR CLOSE-UP SURVEY OF THE STRUCTURE OF SHIPS AND MOBILE OFFSHORE UNITS 16.1 General 16.1.1 Application <u>2 Firms carrying out thickness measurements by Remotely Operated Vehicles are to hold a separate approval certificate complying with Chapter 2.</u> <u>3 Firms carrying out in-water close-up surveys by Remotely Operated Vehicles are to comply with this Chapter and Chapter 3, except for 3.2.2(1).</u>	Chapter 16 FIRMS ENGAGED IN SURVEY USING REMOTE INSPECTION TECHNIQUES AS AN ALTERNATIVE MEANS FOR CLOSE-UP SURVEY OF THE STRUCTURE OF SHIPS AND MOBILE OFFSHORE UNITS 16.1 General 16.1.1 Application (Newly added) <u>2 Firms carrying out in-water close-up survey by Remotely Operated Vehicles are to comply with the requirements in Chapter 3 as well as the requirements in this Part.</u>	UR Z17 ANNEX1 16.3 clarified that hold of an approval certificate as a thickness measurement service provider is required. Moved from 16.1.1.2
EFFECTIVE DATE AND APPLICATION		
1. The effective date of the amendments is 1 January 2027.		