

Common Structural Rules for Bulk Carriers, January 2006

Background Document

CHAPTER 13 – SHIPS IN OPERATION, RENEWAL CRITERIA

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SECTION 1 – MAINTENANCE OF CLASS

1. GENERAL

1.1 Application

1.1.1

1.1.1.a Since regulations related to survey requirements for the maintenance of class of bulk carriers exist in the rules of every classification society, based on IACS UR Z 10.2 and UR Z 10.5, general regulations are specified to refer to them.

1.1.2

1.1.2.a Since regulations related to survey requirements for the maintenance of class of bulk carriers exist in the rules of every classification society, based on IACS UR Z 10.2 and UR Z 10.5, general regulations are specified to refer to them.

1.1.3

1.1.3.a Since regulations related to survey requirements for the maintenance of class of bulk carriers exist in the rules of every classification society, based on IACS UR Z 10.2 and UR Z 10.5, general regulations are specified to refer to them.

1.2 Definitions

1.2.1 Local corrosion

1.2.1.a Corrosion of very local aspect is defined.

1.2.2 Substantial corrosion

1.2.2.a This definition is based on IACS UR Z 10.2 and UR Z 10.5.

SECTION 2 – THICKNESS MEASUREMENTS AND ACCEPTANCE CRITERIA

1. APPLICATION

1.1 General

1.1.1

1.1.1.a The general layout of the Section is detailed.

2. RULE REQUIREMENTS FOR THE EXTENT OF MEASUREMENTS AND THE DETERMINATION OF LOCATIONS

2.1 General

2.1.1

2.1.1.a The general references to rule requirements for thickness measurements, based on IACS UR Z 7 (outside the cargo length area), UR Z 10.2 (within the cargo length area) and UR Z 10.5 (within the cargo length area) are given.

2.2 Class renewal survey

2.2.1

2.2.1.a What thickness measurements consist of is explained.

2.2.2

2.2.2.a References are made to IACS UR Z 7, UR Z 10.2 and UR Z 10.5 for the determination of close-up surveys and relevant thickness measurements as well as the areas considered as suspect areas.

2.3 Number and locations of measurements

2.3.1 Number of measurements

2.3.1.a It is clarified that the locations of the points to be measured are given for the most important items of the structure.

2.3.2 Locations of measurements

2.3.2.a These requirements are based on IACS UR Z 10.2, UR Z 10.5 and BV Rules Part A, Ch 2, App 3.

3. ACCEPTANCE CRITERIA

3.1 Definitions

3.1.1 Deck zone

3.1.1.a The structural items to be included in the deck zone are defined.

3.1.2 Bottom zone

3.1.2.a The structural items to be included in bottom zone are defined.

3.1.3 Neutral axis zone

3.1.3.a The structural items to be included in the neutral axis zone are defined.

3.2 Local strength criteria

3.2.1 Items for the local strength criteria

3.2.1.a The structural items to be considered for the local strength criteria are defined.

3.2.2 Renewal thickness for corrosion other than local corrosion

3.2.2.a The criteria specifies that steel renewal is required when the gauged thickness is less than the renewal thickness, as per standard principle among IACS members.

3.2.3 Renewal thickness for local corrosion

3.2.3.a The criteria for renewal thickness in case of local corrosion is based on UR Z 10.2 and UR Z 10.5

3.3 Global strength criteria

3.3.1 Items for the global strength criteria

3.3.1.a Reference is made to [3.1] for the list of items of the deck zone, bottom zone and neutral axis zone to be considered for the global strength criteria.

3.3.2 Renewal thickness

3.3.2.a The specified global strength criteria is based on current IACS Members rule requirements.