



## TECHNICAL CIRCULAR No. 635 of 9<sup>th</sup> June 2020

To	All Surveyors/Auditors
Applicable to flag	All Flags
<b>Title</b>	<b>Gauging- Survey Planning</b>
Reference	CONARINA - Instructions

### Gauging- Survey Planning

Thickness measurements may be required during surveys to active service vessels.

#### **Required Documentation**

After obtaining the scantling drawings from the Owners, and advise the Owner on the following:

- Thickness measurement requirements.
- Use of an CONARINA approved Thickness Measurement Company.
- The maximum allowable wastage (or minimum allowable thickness) for the structure(s) to be gauged.

The Surveyor is to obtain and reference the wastage limits so that as soon as the thickness measurements are known, additional measurements can be requested as necessary for marginal conditions or questionable measurements.

As a general observation, some shipyards/designers put the renewal thickness in parentheses in the vicinity of the original plate thickness on as-built drawings. Since this is not always the practice, it is best to review the first few pages of the drawings for an indication of where the renewal thickness is located.

#### **Survey Planning Meeting**

The surveyor should agree with the Owner:

1. The gauging start and gauging stop dates are to be within the First Visit and Last Visit dates of the CONARINA Survey.
2. Reporting of thickness measurements on regular basis.
3. Prompt notification to the Surveyor in case of findings to include as a minimum the following items in their report:
  - excessive and/or extensive pitting/grooving of any significance
  - structural defects including buckling, fractures and deformed structures
  - detached and/or holed structure
  - corrosion of welds

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4. Survey planning document
  - Conduct a meeting with the related parties
  - Identify the hull drawings to obtain the as-built scantling for the TM
  - Establish the wastage allowances (to the rules, other, other analysis, etc)
  - Watch out for special information related to thickness measurements (re-assessment, modification, damage, engineering analysis, permanent ballast etc)
  
5. Actions to be taken in case of substantial corrosion.
  - a. Localized readings of substantial corrosion will not usually be a problem, however generalized areas of substantial corrosion would require an Additional Requirement to be imposed for further examination and gauging at Annual Surveys.
  - b. Areas of substantial corrosion need to be further investigated.
  
6. If an Owner elects to start the gauging before the overall survey, the attending Surveyor shall advise the Owner that the planned extent and locations of thickness measurements will be subject to confirmatory gauging and, where necessary, additional gauging as a consequence of the overall survey may also be required.

NOTE: Only the Surveyor should control the process of taking thickness measurements. Under no circumstances are the thickness measurement locations to be left up to the Owner or the TM company.

#### REFERENCES:

- CONARINA – Instructions. Courtesy of ABS.
- ATTACHMENTS: No

Kindest Regards,

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