

## TECHNICAL CIRCULAR No. 574 of 08th August 2019

То	All Surveyors/Auditors
Applicable to flag	All Flags
Title	Approval of Hull Gauging Firms
Reference	CONARINA Survey Instructions

## **Hull Gauging Firms as External Specialist**

The firms engaged in thickness measurements of hull structures should be verified as follow:

- 1) The responsible supervisor shall be qualified according to a recognized national or international industrial NDT standard (e.g. EN 473 level II or ISO 9712 level II as amended).
- 2) The operator carrying out the measurements shall be certified to a recognized national or international industrial standard (e.g. EN 473 level I or ISO 9712 level I as amended).
- 3) The operator shall have adequate knowledge of ship structures enough to elect a representative position for each measurement.
- 4) The specialist shall have adequate knowledge of the thickness measurements requirements for the serviced vessel type in accordance with CONARINA Rules.
- 5) The specialist shall have adequate knowledge of the hull thickness measurement requirements in the CONARINA Rules.
- 6) The specialist shall have adequate knowledge of the thickness measurement and close-up survey requirements at Special Periodical Surveys.
- 7) Subcontractors, if any, shall meet all the requirements of operators.
- 8) On coated surfaces, instruments using pulsed echo technique (either with oscilloscope or digital instruments using multiple echoes, single crystal technique) are required.
- 9) Single echo instruments may be used on uncoated surfaces, which have been clean and ground.
- 10) The specialist has routine maintenance procedures and calibration records of the equipment used for thickness measurements such as ultrasonic testing machines.
- 11) There is a guide for thickness measurement operators.
- 12) Previous hull gauging reports for classification surveys have been verified and are found satisfactory.
- 13) There is a training program of technician for thickness measurement.

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## **REFERENCES:**

- CONARINA Survey Instructions, ABS
- ATTACHMENTS: No

Kindest Regards, Val Bozenovici Naval Architect – Conarina Technical Director

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