



## TECHNICAL CIRCULAR No. 050 of 28<sup>th</sup> March 2012

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To: All Surveyors/Auditor

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Applicable to flag: All Flags

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Subject: **RAPORT REVIEW PROCEDURES**

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Reference: CLASS AND STATUTORY REPORTS

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### Class Hull and Statutory Construction Report Review Procedure

#### a. General Characteristics

The following sections can vary depending on the vessel type.

- i. **Vessel Designation** – Ensure the IMO, Official Number, and the Call Sign are completed as may be applicable. Ensure that the contract date, keel laying, launching and Delivery Date are entered as project progresses. Ensure that vessel type and vessel description are correct.
- ii. **Builder Designation** – Ensure the correct Builder, Builder Building ID, and the Builder Role is completed.
- iii. **Service Restriction** – Most of this data can only be corrected with CONARINA Technical Office acceptance.
- iv. **Class Information** – Ensure that CONARINA class Notations are accurate.
- v. **Principal Characteristics** –
  - 1) Length overall (LOA), Length between perpendiculars (LBP), Length molded (Lm), STEM overhang, STERN overhang, Breadth overall, Breadth molded (B), Depth overall and the Depth molded (D) should be populated.
- vi. **Hull Characteristics** –
  - 1) Review the sections Stiffener systems, Spacing, and other features.
  - 2) Under the Other Features ensure the applicable “Construction Features” has been indicated.
- vii. **Hull Material** –

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- 1) The Primary Material should be indicated.
  - 2) Ensure the Special Materials have been indicated with their location.
- viii. **Vessel Other Information** – Ensure the following:
- 1) Record Comments
  - 2) Other fields should be verified, as applicable.
- ix. **Freeboard Characteristics** – Note: these should be verified by CONARINA Technical Office.
- 1) Freeboard Characteristics
  - 2) Freeboard Assignment
- x. **Tonnage Characteristics** – Ensure the applicable Tonnages are indicated and that a Registered Tonnage has been indicated. Note: these should be verified CONARINA Technical Office.
- xi. **Decks** – The total number of “continuous” decks should be indicated. This excludes inner bottom tank tops.

**b. Vessel Arrangement**

The following should be checked:

- i. **Spaces** – The Spaces section lists all the Cargo Holds, Cargo Tanks, Ballast Tanks, Fuel Oil Tanks, Lube Oil Tanks, and Voids which have to be completed for the vessel in order to appear on the status.
  - 1) Compartments:
    - a) All compartments including each individual void have been entered.
    - b) The means of heating for the Cargo Holds, Cargo Tanks have to be completed.
    - c) The Space Arrangement “Main Hull” must be created in order to accommodate the Hull Gauging Survey.
    - d) All compartments should have “longitudinal position” indicated in location on detailed sections.
  - 2) Compartment Relations:
    - a) These should be created for future reference; these are limited to relationship between ballast tanks and heated cargo and fuel oil tanks. (adjacency relations)
  - 3) Capacity:
    - a) All vessels should have the Capacity for the various tanks of the vessel indicated.
    - b) Container vessels should have the Container Capacity section completed.

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ii. **Structure** – The following panels should be created as a minimum:

- 1) Main Deck and any other continuous decks with the exception tank tops which should be excluded.
- 2) Side Shell Port
- 3) Side Shell Starboard
- 4) Bottom Shell
- 5) Transverse Watertight Bulkhead, to main or upper deck (as many as are applicable). Frame number location should be indicated if possible.
- 6) Longitudinal Watertight Bulkhead, within Cargo Block section (Tankers, Bulk Carriers, etc.), as many as are applicable.

**c. Machinery Product**

i. The Machinery Item list is checked.

ii. Ensure the following are checked:

1) **Mooring System**

- a) Anchor Chain Strength Level should be reported.
- b) Anchor Chain Design Nominal Chain Diameter should be reported.
- c) Anchor Holding Ability should be reported.

2) **Cargo Gear System**

- a) All items that are to be listed in the Cargo Gear Register have the Class Item box un-ticked.
- b) Cargo Gear item labels to correctly identify the items onboard.  
Example Hose Handling Crane Stbd instead of Crane No.01
- c) Manufacture Name, Manufacture Number and Safe Working Load should be reported.

3) **Main Propulsion System**

- a) The Manufacturer Name, Model Number, Manufacture Number, Cylinder Bore, Maximum Continuous Rating, Number of Cylinders, Piston Stroke, and Revolutions at MCR of the Main Engine should be reported.
- b) The Cylinder Units should have complete parts created if the Bore of the Main Diesel Engine is above 300 mm.
- c) The Tail Shaft and the Tail Shaft Bearing must be created in order to report on the Lubricant of the bearing (either Water or Oil Lubricated).

4) **Steam Piping System**

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- a) Manufacturer Name, Manufacture Number, Maximum Allowable Working Pressure, and Total Heating Surface should be reported.
- 5) **Main Electrical System** and Emergency Power System
  - a) The kW of each generator should be reported and cylinder bore and MCR of diesel generator.

**d. Outfitting**

- i. **Hull Fitting** – Ensure all fittings were checked.

**Closures** – Ensure the following have been checked:

- 1) Bow Door
- 2) Cargo Port
- 3) Fueling Port
- 4) Gangway Port
- 5) Hatch Cover
- 6) Inner Door
- 7) Pontoon Cover
- 8) Side Shell Door
- 9) Side Shell Ramp
- 10) Stern Door

- ii. **Other Closures** – Ensure all are checked.
- iii. **Lifesaving appliances** – Ensure all are checked.
- iv. **Navigation Safety Appliances** – Ensure all are checked.
- v. **Fire Fighting Appliances** – Ensure all are checked.
- vi. **Deck Fittings** – Ensure all are checked.
- vii. **Manual/Reference** – Ensure all are checked.
- viii. **Log Book/Calibration Record** – Ensure all are checked.
- ix. **Loading Application** – Ensure all are checked.

**e. Customers for a Vessel**

Ensure all applicable Clients have been added. As a minimum this should include the Registered Owner.

**f. Vessel Relationship**

If the vessel's hull is related to other vessels, then verify that vessel relationships were created (e.g., Sister vessel, similar hull, comparable hull).

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## 1. Review Work Order

- a. Work Order contains one (1) or more of the following class surveys:
  - Vessel Changing Class Initial Survey
  - Initial Survey New Construction
  - Boiler Extension Survey
  - Dry-docking Extension Survey
  - Extension Survey
  - Lay-up Survey
  - Modification Survey
  - Vessel Changing Class Confirmatory Survey
- b. Work Order contains the initial statutory surveys and statements.
- c. Work order contains the initial cargo gear survey.

## 2. Review Certificates

- a. Interim Class Certificate
- b. Statutory Certificates
- c. Cargo Gear register(s)

## REFERENCES:

CONARINA CLASS AND STATUTORY PROCEDURES

**ATTACHMENTS:** No.

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