



TECHNICAL CIRCULAR No. 640 of 8th July 2020

To	All Surveyors/Auditors
Applicable to flag	All Flags
Title	Modification/Alteration Affecting Class
Reference	CONARINA - Instructions

Modification/Alteration Affecting Class Requiring Engineering Review

The details of modifications or alterations that may affect Classification or the assignment of the Load Line are required to be submitted by the Owner or shipyard to an CONARINA Head Office for approval.

Examples of such modifications include but are not limited to the following:

Structural items:

- Cranes installation
- Sea-chest additions
- Moon Pool additions
- Fire monitors
- Cement/mud tanks
- Platforms of various types
- Foundations of engines, generators, pumps, etc.

Mechanical systems:

- Engines, generators, pumps, etc,
- Cement/mud tanks pumping and mixing systems arrangement
- Cranes and derricks

Electrical systems:

- Additional generator sets

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- Electric motor driven pumps
- Fire detection/Gas detection
- Lighting systems, including emergency lighting
- Electrical equipment in hazardous locations

Piping systems:

- Tank conversion or addition
- Fire monitor installation (in addition to mechanical, structural, and piping requirements).

Load Line/Stability:

Moving, raising, removal or adding:

- Air pipes
- Ventilators
- Hatch covers (access covers, cargo hold covers, E/R)
- Bulwarks, guard rails and/or bin walls
- Doors
- Freeing Ports

Changes in lightship weight, VCG and/or LCG of the vessel. This will in most cases, require re-approval of the Trim and Stability Booklet. In all cases, the engineering office determines the requirements, which will be dependent on several factors. The following is given as general guidance:

Changes in lightship weight:

- Under 2% - usually can be resolved by calculations
- 2% and more - usually requires an inclining experiment

Changes in LCG of the vessel:

- Under 1% - usually resolved by calculations
- 1% and more- usually requires an inclining experiment

In each of the above cases, regardless of whether the modifications are to Load Line items or affect lightship weight, VCG and LCG due to weight addition or weight removal, the CONARINA Head Office is required to approve the modification prior to the issuance of a Load Line certificate.

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REFERENCES:

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

Kindest Regards,

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