

CCS

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To: relevant departments of CCS Headquarters, CCS plan approval centers, CCS surveyors, shipbuilders, test units, design institute, product manufacturers, shipowners and ship management companies

Notice on Implementation of IACS Unified Requirements UR M45 (Rev. 2)

IACS Council adopted the Rev.2 of UR M45 - Ventilation of Machinery Spaces in February 2011 with the aim to uniform implement ICLL Convention requirements for continued ventilation of machinery spaces under all weather conditions by IACS members.

This amendment clarifies that machinery spaces described in the UR M45 is the same with those defined in SOLAS Regulation II-1/3.16, i.e. “machinery spaces are all machinery spaces of category A and all other spaces containing propelling machinery, boilers, oil fuel units, steam and internal-combustion engines, generators and major electrical machinery, oil filling stations, refrigerating, stabilizing, ventilation and air conditioning machinery, and similar spaces, and trunks to such spaces”. UR M45 requires that machinery spaces of category A shall be adequately ventilated so as to ensure that when machinery or boilers therein are operating at full power in all weather conditions including heavy weather, an adequate supply of air is maintained to the spaces for the safety and comfort of personnel and the operation of the machinery; and any other machinery space shall be adequately ventilated appropriate for the purpose of that machinery space - this is based on the principles laid down in SOLAS Regulation II-1/35 and such ventilations should be supplied through suitably protected openings.

Furthermore, the arrangement of so called suitably protected openings should take into account Reg.17(3) which mainly addresses the height of coaming, and Reg.19 (requirements of ventilator) of the 1966 Load Line Convention as amended by the Protocol of 1988, so they can be used in all weather conditions. For more details, please refer to the Annex.

The ventilation of machinery spaces, the arrangements of protected openings for these applicable CCS classed ships contracted for construction on or after 1 January 2012 should be approved, inspected and verified according to the Rev.2 of UR M45 by CCS plan approval centers and survey departments respectively.

Annex: UR M45 (Rev.2) Ventilation of Machinery Spaces

Please feel free to contact Technical Management Department of CCS for any inquiry. E-mail: rt@ccs.org.cn

This Circular is available on www.ccs.org.cn and forwarded by each branch to relevant shipbuilders, test units, design institute, product manufacturers, shipowners and ship management companies within its business area.

M45

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Annex 1:**Ventilation of Machinery Spaces**

The ventilation of machinery spaces shall be according to the principles laid down in SOLAS Regulation II-1/35 and supplied through suitably protected openings arranged in such a way that they can be used in all weather conditions, taking into account Reg.17(3) and Reg.19 of the 1966 Load Line Convention as amended by the Protocol of 1988.

The machinery spaces are those defined in SOLAS Regulation II-1/3.16.

Note:

1. Rev.2 of this UR is to be uniformly implemented by IACS Societies for ships contracted for construction on or after 1 January 2012.
2. The "contracted for construction" date means the date on which the contract to build the vessel is signed between the prospective owner and the shipbuilder. For further details regarding the date of "contract for construction", refer to IACS Procedural Requirement (PR) No. 29.