

Amendment on 27 June 2024

Resolved by Technical Committee on 30 January 2024

Installation Positions of Gas Detection and Alarm Systems for Mobile Offshore Drilling Units

Object of Amendment

Rules for the Survey and Construction of Steel Ships Part P

Reason for Amendment

IACS Unified Requirement (UR) D11 specifies requirements related to fire extinguishing systems of mobile offshore drilling units and these requirements have already been incorporated into Part P of the NK Rules.

IACS adopted UR D11(Rev.4) to clarify the installation positions of fixed gas detection and alarm systems for mobile offshore drilling units in December 2021 but subsequently confirmed that some of the revision's wording was unclear, and this was leading to some misunderstandings.

IACS, therefore, adopted UR D11(Rev.4/Corr.1) in December 2022 to clarify the requirements related to the installation positions of fixed gas detection and alarm systems.

Accordingly, relevant requirements are amended based on IACS UR D11(Rev.4/Corr.1).

Outline of Amendment

Clarifies the requirements related to the installation positions of gas detection and alarm systems required for mobile offshore drilling units.

Effective Date and Application

This amendment applies to mobile offshore drilling units for which the date of contract for construction is on or after 1 January 2023.

ID: DX23-12

Amended-Original Requirements Comparison Table
(Installation Positions of Gas Detection and Alarm Systems for Mobile Offshore Drilling Units)

Amended	Original	Remarks
<p style="text-align: center;">RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS</p> <p style="text-align: center;">Part P MOBILE OFFSHORE DRILLING UNITS AND SPECIAL PURPOSE BARGES</p> <p style="text-align: center;">Chapter 15 FIRE EXTINGUISHING SYSTEMS</p> <p>15.2 Mobile Offshore Drilling Units</p> <p>15.2.11 Gas Detection and Alarm System</p> <p>1 Flammable gas detection and alarm system</p> <p>(1) A fixed automatic gas detection and alarm system are to be provided to the satisfaction of the Society so arranged as to monitor continuously all enclosed areas of the units in which an accumulation of flammable gas may be expected to occur. The fixed automatic combustible gas detection and alarm systems are, as a minimum, to be provided for the following areas:</p> <ul style="list-style-type: none"> (a) cellar decks; (b) drill floors; (c) ventilation intake of positive pressure driller's cabin; (d) mud pit areas; (e) shale shaker areas; (f) enclosed spaces containing the open components of mud circulation systems from the bell nipple to the 	<p style="text-align: center;">RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS</p> <p style="text-align: center;">Part P MOBILE OFFSHORE DRILLING UNITS AND SPECIAL PURPOSE BARGES</p> <p style="text-align: center;">Chapter 15 FIRE EXTINGUISHING SYSTEMS</p> <p>15.2 Mobile Offshore Drilling Units</p> <p>15.2.11 Gas Detection and Alarm System</p> <p>1 Flammable gas detection and alarm system</p> <p>(1) A fixed automatic gas detection and alarm system are to be provided to the satisfaction of the Society so arranged as to monitor continuously all enclosed areas of the units in which an accumulation of flammable gas may be expected to occur. The fixed automatic combustible gas detection and alarm systems are, as a minimum, to be provided for the following areas:</p> <ul style="list-style-type: none"> (a) cellar decks; (b) drill floors; (c) ventilation intake of positive pressure <u>explosion-proof</u> driller's cabin; (d) mud pit areas; (e) shale shaker areas; (f) enclosed spaces containing the open components of mud circulation systems from the bell nipple to the 	<p>IACS UR D11.7.1 c)</p>

Amended-Original Requirements Comparison Table
(Installation Positions of Gas Detection and Alarm Systems for Mobile Offshore Drilling Units)

Amended	Original	Remarks
<p>mud pits;</p> <p>(g) ventilation intakes of accommodation spaces;</p> <p>(h) ventilation intakes of enclosed machinery spaces contiguous to hazardous areas and containing internal combustion engines, boilers, or non-explosion proof electrical equipment;</p> <p>(i) air intakes to all combustion engines or machinery, including internal combustion engines, boilers, compressors or turbines, located outside of an enclosed machinery space;</p> <p>(j) at each access door to accommodation spaces;</p> <p>(k) near other openings, including emergency egress, of accommodation spaces, regardless if these openings are fitted with self-closing and gastight closing appliances.</p> <p>((2) to (4) are omitted.)</p>	<p>mud pits;</p> <p>(g) ventilation intakes of accommodation spaces;</p> <p>(h) ventilation intakes of enclosed machinery spaces contiguous to hazardous areas and containing internal combustion engines, boilers, or non-explosion proof electrical equipment;</p> <p>(i) air intakes to all combustion engines or machinery, including internal combustion engines, boilers, compressors or turbines, located outside of an enclosed machinery space;</p> <p>(j) at each access door to accommodation spaces;</p> <p>(k) near other openings, including emergency egress, of accommodation spaces, regardless if these openings are fitted with self-closing and gastight closing appliances.</p> <p>((2) to (4) are omitted.)</p>	

Amended-Original Requirements Comparison Table
(Installation Positions of Gas Detection and Alarm Systems for Mobile Offshore Drilling Units)

Amended	Original	Remarks
EFFECTIVE DATE AND APPLICATION		
<ol style="list-style-type: none"> The effective date of the amendments is 1 July 2024. Notwithstanding the amendments to the Rules, the current requirements apply to mobile offshore drilling units for which the date of contract for construction* is before 1 January 2023. <p>* “contract for construction” is defined in the latest version of IACS Procedural Requirement (PR) No.29.</p> <p style="text-align: center;">IACS PR No.29 (Rev.0, July 2009)</p> <ol style="list-style-type: none"> The date of “contract for construction” of a vessel is the date on which the contract to build the vessel is signed between the prospective owner and the shipbuilder. This date and the construction numbers (i.e. hull numbers) of all the vessels included in the contract are to be declared to the classification society by the party applying for the assignment of class to a newbuilding. The date of “contract for construction” of a series of vessels, including specified optional vessels for which the option is ultimately exercised, is the date on which the contract to build the series is signed between the prospective owner and the shipbuilder. For the purpose of this Procedural Requirement, vessels built under a single contract for construction are considered a “series of vessels” if they are built to the same approved plans for classification purposes. However, vessels within a series may have design alterations from the original design provided: <ol style="list-style-type: none"> such alterations do not affect matters related to classification, or If the alterations are subject to classification requirements, these alterations are to comply with the classification requirements in effect on the date on which the alterations are contracted between the prospective owner and the shipbuilder or, in the absence of the alteration contract, comply with the classification requirements in effect on the date on which the alterations are submitted to the Society for approval. The optional vessels will be considered part of the same series of vessels if the option is exercised not later than 1 year after the contract to build the series was signed. If a contract for construction is later amended to include additional vessels or additional options, the date of “contract for construction” for such vessels is the date on which the amendment to the contract, is signed between the prospective owner and the shipbuilder. The amendment to the contract is to be considered as a “new contract” to which 1. and 2. above apply. If a contract for construction is amended to change the ship type, the date of “contract for construction” of this modified vessel, or vessels, is the date on which revised contract or new contract is signed between the Owner, or Owners, and the shipbuilder. <p>Note: This Procedural Requirement applies from 1 July 2009.</p>		