

# Fans Designed to Avoid the Possibility of Ignition

## Amended Rules and Guidance

Rules for the Survey and Construction of Steel Ships Part S

Rules for Cargo Refrigerating Installations

Guidance for the Survey and Construction of Steel Ships Parts D, H, S, O, P, PS, Q, and R

Guidance for High Speed Craft

Guidance for Cargo Refrigerating Installations

Guidance for the Survey and Construction of Passenger Ships

Guidance for the Survey and Construction of Inland Waterway Ships

## Reason for Amendment

- (1) SOLAS chapter II-2 specifies that fans fitted in the spaces of high explosion risk, such as cargo pump rooms and vehicle spaces, etc., are to be designed such as to avoid the possibility of ignition. The ClassNK Rules specify that fans required to be designed such as to avoid the possibility of ignition are to be in accordance with R4.5.4-1 of Guidance for the Survey and Construction of Steel Ships Part R and are to be fitted with suitable wire mesh guards. These requirements are referenced by various parts of the ClassNK Rules which specify requirements relevant to such equipment. Therefore, all relevant requirements were amended so that they are specified uniformly.
- (2) The ClassNK Rules specify that electrical equipment used in explosive surroundings is to be of a safe type for use in explosive gas in accordance with IEC 60079 or the guideline issued by an organization deemed appropriate by the Society. The aforementioned guideline has been revised, and accordingly all relevant requirements were amended so that ClassNK Rules refer to the latest version of this guideline and that all relevant requirements are specified uniformly.

## Outline of Amendment

- (1) Amended similar requirements for fans required to be designed such as to avoid the possibility of ignition so that the wording is consistent for all requirements.
- (2) Amended citation standards relevant to electrical equipment available to be used in explosive surroundings accordingly so that they reference the latest version of the guideline approved by the Society, and the wording is consistent for all requirements.