

Capacity of Main Fire Pumps in Ships Provided with Mobile Water Monitors

Amended Guidance

Guidance for the Survey and Construction of Steel Ships Part R

Reason for Amendment

SOLAS II-2/10 stipulates that, for ships required to be provided with mobile water monitors, the total capacity of main fire pumps is to be adequate to simultaneously operate all the mobile water monitors and fire hoses when the mobile water monitors are supplied by the fire main. Meanwhile, the quantity of water delivered by the fire pumps is required to be not less than four thirds of that required for bilge pumping. In this regard, there is a case for a large ship where the required total capacity of the fire pumps considerably exceeds the amount which is actually necessary for the purpose of fire-fighting due to the large quantity of water required for its bilge pumping.

Therefore, IACS adopted IACS UI SC270 (Rev.1) to accept the total capacity of main fire pumps as far as it is adequate to simultaneously operate all the mobile water monitors and fire hoses when the mobile monitors are supplied by the fire main, from the perspective of fire-fighting.

Further, SOLAS II-2/19 stipulates that the quantity of water delivered in a ship carrying dangerous goods is to be capable of simultaneously supplying four nozzles and a fixed arrangement of spraying nozzles or flooding the cargo space with water (hereinafter referred to as “water spray system”). On the other hand, it was unclear whether the total capacity of the main fire pumps should cover four nozzles of water, mobile water monitors and water spray system at the same time, in case mobile water monitors are required to be provided. Having noted that SOLAS regulations are based on the single fire scenario, IACS has stipulated in IACS UI SC270 (Rev.1) that nozzles of water, the mobile water monitors and the water spray system do not need to be supplied by the main fire pump simultaneously, which means that the total capacity of the main fire pumps should be capable of simultaneously supplying “four nozzles of water plus mobile water monitors” or “four nozzles of water plus water spray system”, whichever is greater.

Accordingly, relevant requirements were amended in accordance with IACS UI SC270 (Rev.1).

Outline of Amendment

The main contents of this amendment are as follows:

- (1) Specified the total capacity of main fire pumps and the diameter of fire main in case where mobile water monitors are supplied by the fire main.
- (2) Specified the total capacity of main fire pumps and the diameter of fire main in case where mobile water monitors are required for a ship carrying dangerous goods.

Amended Requirements

Guidance for the Survey and Construction of Steel Ships
Part R: R10.2.1, R10.2.2, R19.3.1