Capacities of Air Tanks used for Remotely Operated Main Suction Valves, etc. of Fuel Oil Tanks

Amended Guidance

Guidance for the Survey and Construction of Steel Ships Part R

Reason for Amendment

In cases where the main suction valves of fuel oil tanks are remotely closed by compressed air, the ClassNK Rules require that the capacities of the air tanks used to hold this air be sufficient enough to close all of the main suction valves at least three times. Moreover, in cases where the air in said tanks is also used to remotely perform other emergency operations, such as the remote closing of the main suction valves of fuel oil tanks for emergency generators, the ClassNK Rules require that the capacities of the tanks also be sufficient enough to perform all of the remote emergency operations at least three times.

The requirements mentioned above were specified in 1984 and were based upon Japanese Industrial Standard (JIS) F7457: "Shipbuilding -- Pneumatically Operated Remote Shut-off Devices for Fuel Oil Tank and Lubricating Oil Tank Emergency Shut-off Valves". Since that time, however, system and equipment reliability has been greatly improved, and proper operation can now be accurately verified through periodical surveys. Therefore, relevant requirements were amended to change the required minimum number of times for performing all remote operations by such tanks from three to two.

Outline of Amendment

(1) Amended requirements related to the required capacities of the air tanks used to hold compressed air for the remote closing of the main suction valves of fuel oil tanks so that the required capacity is to be sufficient enough to close all main suction valves at least twice.

(2) Amended requirements related to the required capacities of air tanks used to hold compressed air to perform, in addition to the remote closing of the main suction valves of fuel oil tanks, emergency operations, so that the required capacity is to be sufficient enough to perform all remote emergency operations at least twice.