

# **The Impact Tests of Steel Pipes for Low Temperature Service**

## **Amended Rules and Guidance**

Rules for the Survey and Construction of Steel Ships Part K

Guidance for the Survey and Construction of Steel Ships Part N

## **Reason for Amendment**

Part K of the Rules for the Survey and Construction of Steel Ships specifies that impact tests may be omitted in cases where the plate of thickness for test specimens is less than 5mm.

However, there are some steel pipes classified for low temperature service which have the same chemical composition, but different impact test results. These pipes are only distinguishable according to their impact test results. Therefore, if impact tests are omitted in accordance with the requirements above, the difference between such pipes cannot be confirmed.

In addition, the requirements of the impact tests of materials used for ships carrying liquefied gases in bulk are specified in Part N of the Rules for the Survey and Construction of Steel Ships. These specify that the testing and requirements for specimens smaller than 5.0mm size are to be in accordance with Recognized Standards; however, no specific information regarding such standards is given.

Therefore, in reference to JIS G 3460 regarding the Japanese Industrial Standards (JIS) for steel pipes for low temperature service, all relevant requirements have been amended to clarify the treatment of steel pipes for low temperature service in cases where test specimens 5mm or more in thickness cannot be taken.

## **Outline of Amendment**

This amendment has clarified the treatment of steel pipes for low temperature service in cases where specimens are not taken for the impact tests of such pipes.