

Full Review of the Requirements for Ore Carrier

Amended Rules and Guidance

Rules for the Survey and Construction of Steel Ships Part C and D
Guidance for the Survey and Construction of Steel Ships Part C and R

Reason for Amendment

In recent years, an increase in the global demand for iron and steel as well as the establishment of regulations related to CO₂ emission amounts, etc. has led to the introduction of increasingly larger ore carriers designed to transport iron ore more efficiently and economically.

In 1960, ClassNK established specific requirements related to the special characteristics of ore carriers as Chapter 30 of Part C of the Rules for Survey and Construction of Steel Ships. Although specific requirements such as those related to constructions and scantlings of wing tanks, methods of applying direct calculations, etc. have been amended over the years, no major overall review of the requirements specified in Chapter 30 has been conducted.

For this reason, ClassNK conducted such a review and, as a result, amended the necessary requirements related to ore carriers in reference to relevant requirements for tankers and bulk carriers whose hull structures and loading conditions are similar to ore carriers, and based on knowledge obtained from ore carrier service records in order to make these requirements more rational for large ore carriers.

Outline of Amendment

- (1) Deleted application limitations regarding the length of ore carriers from Chapter 30 of Part C of the Rules.
- (2) Clarified that ore carriers are to be in accordance with the relevant requirements in Chapter 31A of Part C of the Rules.
- (3) Specified scantling requirements for the structural members of wing tanks in reference to relevant requirements for tankers specified in Chapter 29 of Part C of the Rules.
- (4) Specified scantling requirements for the structural members of double bottoms and ore holds in reference to relevant requirements for bulk carriers specified in Chapter 31 of Part C of the Rules.
- (5) Specified the requirements for fatigue strength assessment of side longitudinals, bottom longitudinals and longitudinals attached to longitudinal bulkheads of ore carriers.