Amended Guidances for Classification of Steel Ships

Pt. 7 Ch.1

2025. 9.

Machinery Rule Development Team

- Main Amendments -

(1) Effective date : 1 Jan. 2026 (based on the contract date, Circular will be issued.)

◉ MSC.1/Circ.1683 : UI for gas free arrangement reflected in Pt.8, Pt. 7 Ch.1 & Ch. 6

Amendment	Note
# PART 7 Ships of Special Service # CHAPTER 1 OIL TANKERS ## Section 10 Piping Systems and Venting Systems for Oil Tankers **1001. General 【See Rule】** **1.** In case where double bottom used as other than cargo oil tank is provided below cargo oil tank, the requirements specified in **Sec 10** of the Rules and additionally the requirements specified in the following are to be complied with ; (1) The air pipes and sounding pipes provided in double bottom may pass through cargo oil tanks. In this case, all pipe joints in the cargo oil tanks are to be of welded joints with a sufficient thickness according to the requirements of **Table 7.1.8.** Further, consideration is to be given to the piping arrangement for expansion and contraction of the pipes. (2) Valve operating rods are not to pass through any part subjected to liquid head at all time, such as the inner bottom plate of the cargo tank. (3) Pipes conveying liquid and bilge suction pipes for tank or void space at the forward position of the ship are to comply with the following requirements: (A) Pipes for tank or void space adjacent to the forward end of cargo oil tank may be led to the aft pump room. Fuel oil transfer pipes may be led to the pump provided in the engine room. (B) Pipes for forepeak tank or void space not adjacent to cargo oil tank may be led to the pump provided in the engine room or the pump to provided in the aft pump room. Where this tank used ballast tank, ballast pipe may be led to the pipes for ballast tank adjacent to the cargo oil tank (C) Where ballast pipes are arranged without passing through cargo oil tanks, piping for fore peak ballast tanks not located adjacent to cargo oil tanks may be led to the pipe lines for ballast tanks located adjacent to cargo oil.(As for bilge pipes, the requirements of **1003. 1.** (3) of the Rules are to apply) To the contrary, however, ballast pipes for ballast tanks located adjacent to cargo oil tanks are not to be led to the pumps which are installed in the engine room for the use of the ballast tanks not located adjacent to cargo oil tanks. **Table 7.1.8 The sounding pipes and air pipes passing through cargo oil tanks** Nominal diameter(mm) / Thickness of pipe / Reference(1) $A < 100$ / 8.7 / Sch. 160 $100 \leq A < 200$ / 11.1 / Sch. 120 $200 \leq A < 250$ / 12.7 / Sch. 80 $250 \leq A$ / 15.1 / Sch. 80 Note: (1) Standard specified in *KSD* 3562 and *KSD* 3570 **2.** All cargo piping (including cargo tank venting piping, relief valve discharge piping, cargo tank purging and gas-freeing piping/ducts), except those serving for inerting gas supply and for bow or stern loading and unloading arrangement, should be arranged within the cargo areas, as defined in **Pt 8 Ch 1 103. 6** of the **Rules for the Classification of Steel Ships**.	〈1 Jan. 2026 (Based on the contract date), Circular will be issued.〉 * MSC.1/Circ.1683 Reflected - 2. added : MSC.1/Circ.1683

Amendment	Note
# PART 7 Ships of Special Service # CHAPTER 1 OIL TANKERS ## Section 10 Piping Systems and Venting Systems for Oil Tankers **1002. Cargo oil pumps and cargo oil piping systems, pipings in cargo oil tank, etc.** 〈Omitted〉 **3.** In application to **1002. 4** of the Rules, Piping systems to be connected to cargo oil piping are to be dealt with under the following requirements; **【See Rule】** (1) Pumps and pipes in any piping system connected to cargo oil pipes are to be dealt with as those in the cargo oil piping system. However, for piping systems specified in **1002. 2** (4), **9** (6), **1003. 1** (2), **2** (2), Guidance **Pt 8. Appendix 8-5. 2** (10) (g) and item (2) below, this requirement may be dispensed with. The piping systems connected to cargo oil piping mean those connected to cargo oil pipes having openings thereto. Hence, for example, hydraulic oil pipes for the control of cargo oil piping system are not regarded as the piping system connected to the cargo oil piping. (2) In case where the cargo oil piping system is connected to; (A) Tank vent pipes : The requirements in Guidance **Pt 8. Appendix 8-5 2** (10)(g) & (h) are to be complied with. Ventilating fans except inert gas blowers, are to be installed within the ~~dangerous spaces.~~cargo area. ~~Where the ventilators are located in a enclosded non-hazardous area, it is to comply with the following requirements.~~ However, gas-freeing air-supply fan(s)/blower(s) and related air-supply piping/ducts may be located in the forecastle area, outside of the cargo area, subject to the requirements in **Pt 8 Ch 2 406. 3** of the Guidance. *(2025)* ~~a) The air supply piping from the ventilator is to have automatically actuated shut-off valve and non-return valve in series.~~ ~~b) The valves of a) above are to be located at the bulkhead where the air supply piping leaves the non-hazardous area, with at least the non-return valve on the outside.~~ ~~c) Shut-off valve is to be opened after the ventilator has started, and automatically closed after the ventilator has stopped. Procedures for the operation of ventilators and valves are to be posted near the place of operation.~~ ~~d) The intake of the ventilator is to be derived from a safe place (eg open deck) outside the ventilated space.~~ ~~e) Ventilators is to be of non-sparking type.~~ 〈Continued〉	〈1 Jan. 2026 (Based on the contract date), Circular will be issued.〉 * MSC.1/Circ.1683 Reflected - Refer to Pt.8 for the requirement of MSC.1/Circ.1683 and clarification added.

Amendments of the Rules for Classification of Steel Ships

Pt. 7

(For External inquiry)

2025. 9.

Machinery Rule Development Team

- Main Amendments -

(1) Effective date : 1 July 2026 (Based on the contract date)

◉ NAJ4800-10-2025 : Requirements for electric equipment revised for coal carrier

Amendment	Note

CHAPTER 3 BULK CARRIERS

Section 13 Requirements for the Fitting of a Forecastle for Bulk Carriers, Ore Carriers and Combination Carriers
Section 16 Electrical Equipment in Coal Carriers

1601. General

The requirements in this Section apply to the electrical equipment installed in the cargo holds and the compartments adjacent thereto of coal carriers.

1602. Dangerous spaces

The following spaces and ~~zones~~ compartments are dangerous spaces, therefore no electrical equipment except those of explosion protected type is to be installed

(1) Enclosed cargo holds

(2) Ventilation ducts for cargo holds

(3) Compartments adjacent to the cargo holds and having an opening such as non-gastight door, hatch and like in their bulkheads and decks

1603. Electrical equipment 【See Guidance】

1. Electrical equipment in ~~cargo hold~~ dangerous spaces

In principle no electrical equipment is to be installed in the ~~cargo holds~~ dangerous spaces defined in 1602.. Where it is inevitable to install electrical equipment in the ~~holds~~ dangerous spaces, the equipment is to comply with the following requirements:

(1) Switches and socket-outlets are not to be installed except those connected to intrinsically safe circuits.

(2) In case where other electrical equipment than those specified in (1) above is inevitably installed, the equipment and its associated cables are to be installed so as to be kept from mechanical damage. In addition, the feeder circuits for the equipment are to be provided with multipole linked isolating switches situated outside the ~~holds~~ dangerous spaces, so deviced as to have the equipment usually locked with the switch in "off" position.

(3) The cables passing through the ~~cargo holds~~ dangerous spaces are to be led in gastight heavy gauge steel pipes, and the both ends of the pipes are to be sealed using cable glands and the like in way of the boundaries of the ~~cargo holds~~ dangerous spaces.

~~2. Electrical equipment in the compartments adjacent to cargo holds~~

~~The electrical equipment which is installed in the compartments adjacent to the cargo holds and having an opening such as non-gastight door, hatch and like in their bulkheads and decks is to be of explosion protected type accepted by the Society.~~

~~3.~~2. Cargo lamps

Cargo lamps to be led and used in the cargo holds are to be the types accepted by the Society.

〈Effective date : 1 July 2026, Based on contract date〉

* NAJ4800-10-2025

- Revisions referenced NAJ4800-10-2025
- ex-proof construction needs to be clarified
- necessity of insertion of the non-ex proof type needs to be clarified
- Correction for referenced regulations

Amendments of the Rules for Classification of Steel Ships

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(1) Effective date : 1 July 2026 (Based on the contract date)

◉ NAJ4800-10-2025 : Requirements for electric equipment revised for coal carrier

Amendment	Note
# CHAPTER 3 BULK CARRIERS ## Section 13 Requirements for the Fitting of a Forecastle for Bulk Carriers, Ore Carriers and Combination Carriers ## Section 16 Electrical Equipment in Coal Carriers **1603. Electrical equipment** 【See Rule】 **1.** The wording "explosion-protected type as deemed appropriate by the Society" in **1603. 1** (2) of the Rules means those generally meeting the requirements in **Pt 6, Ch 1, Sec 9** of the Rules having the flash point G4, the explosion-protective construction of the explosion grade d1 over (Group Ⅱ A, Temperature Class T4 as specified in (KS C) IEC 60079) or equivalent the explosion-proof construction, intrinsic safety pressurized protected construction which are serviceable safely in coal dust. In addition, the electric equipment fitted in the dangerous spaces is to be of IP55, as minimum. In case of non-explosion proof type, all installed electrical equipment is to be completely disconnected from electrical power source before loading and protected against unauthorised reconnection. Disconnection is to be effected with isolating links or lockable switches outside the dangerous spaces. **2.** Cables led to electrical equipment installed within ~~cargo holds~~ dangerous spaces are to be generally mineral insulated copper sheathed cables, lead sheathed armoured cables or non-metal sheathed armoured cables. **3.** ~~To the explosion-protected type approved by the Society in electrical equipment in compartments adjoining cargo holds specified in **1602. 1** (1)**1603. 2** of the Rules the requirements in **1602.1603. 1** above apply correspondingly.~~ **~~4~~3.** In application to **1603. ~~3~~2** of the Rules, the term "accepted by the Society" means to comply with the requirements of **Pt 6, Ch 1, Sec. 9** of the Rules and (KS C) IEC 60079 series.	〈Effective date : 1 July 2026, Based on contract date〉 * NAJ4800-10-2025 - Revisions referenced NAJ4800-10-2025 - ex-proof construction needs to be clarified - necessity of insertion of the non-ex proof type needs to be clarified - Correction for referenced regulations

Amendment	Note
(2) Additional requirements for forward spaces not being defined as a ballast tank (A) Any spaces, voids and/or indirect accesses from the open deck or intermediate space being located adjacent to cargo tanks, and/or are defined as hazardous area zone 1 or 2, shall follow the same requirements to openings and access as reflected for fore peak ballast tanks in (1). (B) In case any spaces or voids are defined as non-hazardous spaces and have access to other non-hazardous spaces (such as bosun store), the following applies: (a) For any non-hazardous space with access to a hazardous space (example: fore peak ballast tank), the non-hazardous space must have access directly to open deck and shall be gas freed directly from open deck, and not through the non-hazardous space (example: bosun store). b) Access from bosun store to a non-hazardous space (example: void) having access to hazardous space (example: fore peak ballast tank) may be accepted through a gas tight bolted manhole, with signboard stating that the non-hazardous space cannot be entered until the space is confirmed gas free. Separation of such spaces are described in **IEC 60092-502:1999** section 4.1.4 and 4.1.5 as applicable. (3) Refer to **1003. 6** of the Guidance for the sample illustrations related to the above points.	〈1 Jan. 2026 (Contracted date), Circular will be issued.〉 * IACS UR F44 Rev.3 & Corr.1 - Fully revised by UR F44 Rev. 3