

is by unmanned barge the shipping papers and emergency response information must be kept on the tug or towing vessel. When an unmanned barge is moored, the shipping paper and emergency response information must be on board the barge in a readily retrievable location.

(b) Any written certification or statement from the shipper to the master of a vessel or to the person in charge of a barge must be on, or attached to, the shipping paper. See Subparts E and F of this part for required certifications.

**§ 148.70 Dangerous cargo manifest; general.**

(a) Except as provided in paragraph (b) of this section and in §148.72 of this part, each vessel transporting materials listed in Table 148.10 of this part must have a dangerous cargo manifest on board.

(b) This document must be kept in a designated holder on or near the vessel's bridge. When required for an unmanned barge, the document must be on board the tug or towing vessel.

**§ 148.71 Information included in the dangerous cargo manifest.**

The dangerous cargo manifest must include the following:

(a) The name and official number of the vessel. If the vessel has no official number, the international radio call sign must be substituted;

(b) The nationality of the vessel;

(c) The name of the material as listed in Table 148.10 of this part;

(d) The hold or cargo compartment in which the material is being transported;

(e) The quantity of material loaded in each hold or cargo compartment; and

(f) The signature of the master acknowledging that the manifest is correct, and the date of the signature.

**§ 148.72 Dangerous cargo manifest; exceptions.**

(a) No dangerous cargo manifest is required for—

(1) Shipments by unmanned barge, except on an international voyage; and

(2) Shipments of materials designated as potentially dangerous materials in Table 148.10 of this part.

(b) When a dangerous cargo manifest is required for an unmanned barge on an international voyage, §148.71(d) of this part does not apply, unless the barge has more than one cargo compartment.

**§ 148.80 Supervision of cargo transfer.**

The master must ensure that cargo transfer operations are supervised by a responsible person as defined in §148.3 of this part.

**§ 148.85 Required equipment for confined spaces.**

When transporting a material that is listed in Table 148.10 of this part, each vessel, other than an unmanned barge, must have on board the following:

(a) Equipment capable of measuring atmospheric oxygen. At least two members of the crew must be knowledgeable in the use of the equipment, which must be maintained in a condition ready for use and calibrated according to the manufacturer's instructions.

(b) At least two self-contained, pressure-demand-type, air breathing apparatus approved by the Mine Safety and Health Administration (MSHA) or the National Institute for Occupational Safety and Health (NIOSH), each having at least a 30-minute air supply. Each foreign flag vessel must have on board at least two such apparatus that are approved by the flag state administration. The master must ensure that the breathing apparatus is used only by persons trained in its use.

**§ 148.86 Confined space entry.**

(a) Except in an emergency, no person may enter a confined space unless that space has been tested to ensure there is sufficient oxygen to support life. If the oxygen content is below 19.5 percent, the space must be ventilated and retested before entry.

(b) In an emergency, a confined space may be entered by a trained person wearing self-contained breathing apparatus, suitable protective clothing as necessary, and a wire rope safety line tended by a trained person outside the