(6) Have no kinks, bulges, soft spots, or other defects that will let it leak or burst under normal working pressure; and

(7) Have a permanently attached nameplate that indicates, or otherwise be permanently marked to indicate—
   (i) Each LHG for which it is suitable;
   (ii) Its MAWP at the corresponding service temperature; and
   (iii) If used for service at other than ambient temperature, its minimum service temperature.

(b) Each loading arm used for the transfer of LHG or its vapor must—
   (1) Be made of materials resistant to each LHG transferred, in both the liquid and vapor state;
   (2) Be constructed to withstand the temperature and pressure foreseeable during transfer;
   (3) Be adequately supported against the weight of its constituent parts, the LHG, and any ice formed on it;
   (4) Be provided with an alarm to indicate when it is approaching the limits of its extension, unless the examined Operations Manual requires a person to perform the same function; and
   (5) Have a permanently attached nameplate that indicates, or otherwise be permanently marked to indicate—
      (i) Each LHG it may handle;
      (ii) Its MAWP at the corresponding service temperature; and,
      (iii) If it is used for service at other than ambient temperature, its minimum service temperature.

§ 127.1105 Layout and spacing of marine transfer area for LHG.

Each new waterfront facility handling LHG, and all new construction in the marine transfer area for LHG of each existing facility, must comply with the following:

(a) Each building, shed, and other structure within each marine transfer area for LHG must be located, constructed, or ventilated to prevent the accumulation of flammable or toxic gases within the structure.

(b) Each impounding space for flammable LHGs located within the area must be designed and located so that the heat flux from a fire over the impounding space does not cause, to a vessel, damage that could prevent the vessel’s movement.

(c) Each manifold, loading arm, or independent mating flange must be located at least 30 meters (98.5 feet) from each of the following structures, if that structure is intended primarily for the use of the general public or of railways:
   (1) A bridge crossing a navigable waterway.
   (2) The entrance to, or the superstructure of, a tunnel under a navigable waterway.

(d) Each manifold, loading arm, or independent mating flange must be located at least 30 meters (98.5 feet) from each public roadway or railway.

§ 127.1107 Electrical systems.

Electrical equipment and wiring must be of the kind specified by, and must be installed in accordance with, NFPA 70.

§ 127.1109 Lighting systems.

(a) Each waterfront facility handling LHG, at which transfers of LHG take place between sunset and sunrise, must have outdoor lighting that illuminates the marine transfer area for LHG.

(b) All outdoor lighting must be located or shielded so that it cannot be mistaken for any aids to navigation and does not interfere with navigation on the adjacent waterways.

(c) The outdoor lighting must provide a minimum average illumination on a horizontal plane 1 meter (3.3 feet) above the walking surface of the marine transfer area that is—