

which could substantially reduce the effectiveness of the packaging or the safety of its use.

*Reinforced tank shell butt weld* means the portion of a butt weld covered by a reinforcing pad.

*Reinforcing pad* means an attachment welded directly to the tank supporting major structural components for the purpose of preventing damage to the tank through fatigue, overstressing, denting, puncturing, or tearing.

*Reliability* means the quantified ability of an item or structure to operate without failure for the specified period of its design life or until its next qualification.

*Representation* means attesting through documenting, in writing or by marking on the tank (or jacket), that a tank car is qualified and railworthy. See also §§180.511 and 180.517(b).

*Safety system* means one or more of the following: Thermal protection systems, insulation systems, tank head puncture resistance systems, coupler vertical restraint systems, and systems used to protect discontinuities (e.g., skid protection and protective housings) as required under this subchapter.

*Service equipment* means equipment used for loading and unloading (including an interior heating system), sampling, venting, vacuum relief, pressure relief, and measuring the amount of lading or the lading temperature.

*Service equipment owner* means the party responsible for bearing the cost of the maintenance of the service equipment.

*Tank car owner* means the person to whom a rail car's reporting marks are assigned, as listed in the Universal Machine Language Equipment Register (UMLER).

*Tank car tank* means the shell, heads, tank shell and head weld joints, attachment welds, sumps, nozzles, flanges, and all other components welded thereto that are either in contact with the lading or contain the lading.

*Train consist* means a written record of the contents and location of each rail car in a train.

[77 FR 37986, June 25, 2012]

**§ 180.505 Quality assurance program.**

The quality assurance program requirements of §179.7 of this subchapter apply.

**§ 180.507 Qualification of tank cars.**

(a) Each tank car marked as meeting a "DOT" specification or any other tank car used for the transportation of a hazardous material must meet the requirements of this subchapter or the applicable specification to which the tank was constructed.

(b) *Tank car specifications no longer authorized for construction.* (1) Tank cars prescribed in the following table are authorized for service provided they conform to all applicable safety requirements of this subchapter:

| Specification prescribed in the current regulations | Other specifications permitted | Notes |
|---|--------------------------------|-------|
| 105A200W .....                                      | 105A100W .....                 | 1     |
| 105A200ALW .....                                    | 105A100ALW .....               | 1     |
| 105A300W .....                                      | ICC-105, 105A300.              |       |
| 105A400W .....                                      | 105A400.                       |       |
| 105A500W .....                                      | 105A500.                       |       |
| 105A600W .....                                      | 105A600.                       |       |
| 106A500X .....                                      | ICC-27, BE-27, 106A500.        |       |
| 106A800X .....                                      | 106A800.                       |       |
| 107A * * * * .....                                  | .....                          | 2     |

NOTE 1: Tanks built as Specification DOT 105A100W or DOT 105A100ALW may be altered and converted to DOT 105A200W and DOT 105A200ALW, respectively.

NOTE 2: The test pressures of tanks built in the United States between January 1, 1941 and December 31, 1955, may be increased to conform to Specification 107A. Original and revised test pressure markings must be indicated and may be shown on the tank or on a plate attached to the bulkhead of the car. Tanks built before 1941 are not authorized.

(2) [Reserved]

(3) Specification DOT-113A175W, DOT-113C60W, DOT-113D60W, and DOT-113D120W tank cars may continue in use, but new construction is not authorized.

(4) Class DOT 105A and 105S tank cars used to transport hydrogen chloride, refrigerated liquid under the terms of DOT-E 3992 may continue in service, but new construction is not authorized.

(5) Specification DOT-103A-ALW, 103AW, 103ALW, 103ANW, 103BW, 103CW, 103DW, 103EW, and 104W tank cars may continue in use, but new construction is not authorized.

[Amdt. 180-8, 60 FR 49079, Sept. 21, 1995, as amended at 68 FR 48572, Aug. 14, 2003; 77 FR 37987, June 25, 2012]