

“Special” changed to “approved”.

12:90-5.12 Welded repairs and alterations to unfired pressure vessels

(a) Welded repairs and alterations to unfired pressure vessels shall comply with:

1. The original construction standard; or
2. The construction standard referenced in N.J.A.C. 12:90-5.2(b) provided that requirement is not less stringent than the original construction standard; and
3. The National Board Inspection Code—1995 edition and all subsequent editions and addenda, or API-510—1995 edition and all subsequent editions and addenda, as applicable.

(b) Welded repairs to unfired pressure vessels shall be performed by an entity possessing a National Board repair authorization, or a New Jersey repair authorization.

(c) A record of welded repairs shall be filed with the Office of Boiler and Pressure Vessel Compliance when requested.

(d) Alterations to unfired pressure vessels shall be performed by a National Board Alteration Certificate Holder, or by a New Jersey authorized repair entity when that entity is also an owner-user entity (registered owner-user inspection agency) as defined in API-510.

(e) An alteration report and a copy of the original manufacturer's data report shall be filed with the National Board of Boiler and Pressure Vessel Inspectors, or the Office of Boiler and Pressure Vessel Compliance if the unfired pressure vessel is not registered with the National Board. The fees for registration shall be in accordance with N.J.A.C. 12:90-5.15(d). If the alteration is performed in accordance with API-510, filing under this subsection is not required; however, the owner-user shall maintain the alteration report for the life of the vessel.

(f) All plans for welded repairs and alterations to pressure vessels shall be approved prior to the start of work by a National Board commissioned inspector with a valid New Jersey Certificate of Competency who is employed by an authorized inspection agency or the State of New Jersey. Approval may also be given by an owner-user inspector holding a valid New Jersey Certificate of Competency and a National Board owner-user commission or an API certification.

Amended by R.1990 d.24, effective January 16, 1990.
See: 21 N.J.R. 3247(a), 22 N.J.R. 235(a).

Incorporation of NBIC updated.

Amended by R.1994 d.599, effective December 5, 1994.
See: 26 N.J.R. 3810(a), 26 N.J.R. 4828(a).

Amended by R.1996 d.588, effective December 16, 1996.
See: 28 N.J.R. 4060(a), 28 N.J.R. 5224(a).

In (a)3, updated Code edition; in (b) deleted reference to ASME Code symbol stamp requirements; in (d), added reference to owner-

user entities; in (e), added API-510 alteration filing exception; and added (f).

12:90-5.13 Shop inspection of unfired pressure vessels

(a) Shop inspection of unfired pressure vessels shall be required, except as provided in (b) below.

(b) Unfired pressure vessels in which steam is not generated, and which do not exceed the following volume and pressure limits, may be exempted from shop inspections by qualified inspectors; provided, that they comply in all other respects with this subchapter:

1. Five cubic feet in volume and 250 psig design pressure;
2. One and one-half cubic feet in volume and 600 psig design pressure.

(c) Such vessels shall be of simple, single wall chamber construction.

(d) Vessels exempted from ASME Code inspection by this section shall be stamped with the “UM” symbol, or as otherwise provided for construction other than Class I pressure vessel.

(e) Shell and tube heat exchangers, jacketed vessels and other type vessels which may be subject to differential pressures shall be shop inspected by an authorized inspector.

(f) All owner user inspection agencies seeking registration with the Office of Boiler and Pressure Vessel Compliance will be audited by the Office of Boiler and Pressure Vessel Compliance. Upon successful completion of this initial audit, the owner user inspection agency shall be registered with the Office of Boiler and Pressure Vessel Compliance and will be audited triannually thereafter. This triannual audit may be conducted on an annual basis when a triannual audit evidences deficiencies. The fee for each audit shall be as provided in N.J.A.C. 12:90-5.15(a)2.

Amended by R.1990 d.24, effective January 16, 1990.
See: 21 N.J.R. 3247(a), 22 N.J.R. 235(a).

Stylistic changes.

Amended by R.1996 d.588, effective December 16, 1996.
See: 28 N.J.R. 4060(a), 28 N.J.R. 5224(a).

Added (f).

12:90-5.14 Field inspection of unfired pressure vessels

(a) Pressure vessels and unfired boilers that are under the supervision of a registered owner-user inspection agency shall be inspected at intervals required by the National Board Inspection Code or API-510, as applicable.

1. Each owner-user inspection organization shall:

- i. Retain on file at the location where equipment is inspected a true record or copy of the report of each inspection which identifies the National Board Commis-

sion number or the API-certification number of the inspector who made the inspection; and

ii. Maintain inspection records which will include a list of pressure vessels covered by N.J.S.A. 34:7-14, showing the National Board Commission number or the API-certification number of the inspector who made the inspection and such abbreviated description as may be necessary for identification, date of the last inspection of each unit, and the approximate date for the next inspection. Such inspection records shall be readily available for examination by the Office of Boiler and Pressure Vessel Compliance or authorized representative during business hours.

New Rule, R.1996 d.588, effective December 16, 1996.

See: 28 N.J.R. 4060(a), 28 N.J.R. 5224(a).

Former N.J.A.C. 12:90-5.14, "Fee and visit charge for shop inspection", recodified to 12:90-5.15.

12:90-5.15 Fee and visit charge for shop inspection

(a) The fee for a shop inspection shall be either:

1. A daily visit charge of \$160.00 for any shop inspection of four hours or less which is made for the purpose of monitoring the quality control process during fabrication of a pressure vessel. This daily visit charge shall be \$300.00 if the shop inspection exceeds four hours. Audits and joint reviews will be charged by the day/half day rate; or

2. A fee of \$25.00 for each pressure vessel when the purpose of the visit is to inspect specific vessels.

(b) In addition to the inspection fee, the travel expenses of the inspector shall be paid at the time of the inspection.

Amended by R.1990 d.24, effective January 16, 1990.

See: 21 N.J.R. 3247(a), 22 N.J.R. 235(a).

Payment for travel expenses of inspector added.

Amended by R.1991 d.609, effective December 16, 1991.

See: 23 N.J.R. 2948(a), 23 N.J.R. 3815(a).

Revised (a)-(c).

Amended by R.1994 d.599, effective December 5, 1994.

See: 26 N.J.R. 3810(a), 26 N.J.R. 4828(a).

Recodified from N.J.A.C. 12:90-5.14 and amended by R.1996 d.588, effective December 16, 1996.

See: 28 N.J.R. 4060(a), 28 N.J.R. 5224(a).

Former N.J.A.C. 12:90-5.15, "Registration of unfired pressure vessels and fees", recodified to 12:90-5.16.

12:90-5.16 Registration of unfired pressure vessels and fees

(a) Unfired pressure vessels shall be registered with the Office of Boiler and Pressure Vessel Compliance.

(b) Unfired pressure vessels registered with the National Board need not be registered with the Office of Boiler and Pressure Vessel Compliance if the owner has been provided with a legible copy of the original National Board registered manufacturers' data report and retains it on file for the life of the unit.

(c) No original registration or registration fee shall be required for vessels inspected by State inspectors, since registration is made by the State inspector.

(d) In instances other than (b) or (c) above, the data reports of the manufacturer, in duplicate, with a registration fee of \$2.00 for each unfired pressure vessel, shall be forwarded to the Office of Boiler and Pressure Vessel Compliance for registration.

1. When registered, one copy of the manufacturer's data report shall be returned to the user of the unfired pressure vessel.

2. If reports are not filed, the unfired pressure vessel shall be subject to State inspection and State inspection fees shall be assessed.

Amended by R.1990 d.24, effective January 16, 1990.

See: 21 N.J.R. 3247(a), 22 N.J.R. 235(a).

Recodified from N.J.A.C. 12:90-5.15 by R.1996 d.588, effective December 16, 1996.

See: 28 N.J.R. 4060(a), 28 N.J.R. 5224(a).

12:90-5.17 Qualification of inspectors

All inspectors as listed in this subchapter shall obtain a Certificate of Competency as outlined in N.J.A.C. 12:90-4.15(a) through (d) as applicable.

New Rule, R.1996 d.588, effective December 16, 1996.

See: 28 N.J.R. 4060(a), 28 N.J.R. 5224(a).

SUBCHAPTER 6. REFRIGERATION SYSTEMS

12:90-6.1 Scope of subchapter

(a) This subchapter shall apply to the design, construction, inspection, installation, repair and alteration of refrigeration systems, except as provided in (b) below.

(b) This subchapter shall not apply to:

1. Systems using refrigerants of flammable or toxic nature of three tons or less of refrigerating capacity;

2. Systems using refrigerants of flammable or toxic nature requiring six driving horsepower or less;

3. Systems using refrigerants of nonflammable and nontoxic nature of 18 tons refrigerating capacity or less;

4. Systems using refrigerants of nonflammable and nontoxic nature requiring 36 driving horsepower or less; and

5. Systems using refrigerants of a nontoxic and nonflammable nature of 15 psig or less, regardless of capacity.

Amended by R.1990 d.24, effective January 16, 1990.

See: 21 N.J.R. 3247(a), 22 N.J.R. 235(a).

Exclusion added at (b)5.