

**AGENDA
ITEM
IV.C.**

STATE OF OREGON

MEMORANDUM

BUILDING CODES DIVISION

SEPTEMBER 12, 2006

To: Board of Boiler Rules

From: Mike Graham, Chief Boiler Inspector

Subject: Boiler & Pressure Vessel Inspection Frequency Rules

Status Update:

This report provides an update on the current status of the Boiler and Pressure Vessel Inspection Frequency Rules.

On June 6, 2006, the division reported to the board the findings from the rulemaking advisory committee and provided a draft of these rules to the board. The division after talking to various Board members has subsequently modified the proposed rules to allow adequate notification to all affected parties and to provide for a smooth implementation. A hearing has been scheduled for September 19, 2006 at 9:30 AM at the division. The division will allow the public to submit written comments until 5:00 PM on September 22, 2006.

These rules, which will be implemented in phases, adjust the inspection frequencies of certain boilers and pressure vessels based on life/safety criteria.

Phase one

Effective March 1, 2007, the new rules require internal inspections of hot water supply and hot water heating boilers every six years, instead of every two years. External inspections of these boilers will remain on a two-year interval.

Phase two

Effective September 1, 2007, air tanks, not located in places of public assembly, less than 20 cubic feet in volume, and operated at gauge pressures of less than 200 pounds per square inch must be inspected externally every six years, rather than every five years.

The proposed rules are attached for reference.

**BOILER & PRESSURE VESSEL RULES
DRAFT 11
August 28, 2006**

**DIVISION 225
BOILERS AND PRESSURE VESSELS**

Subpart C – Timing of Inspections

OAR 918-225-0570

**Timing of Inspections by Special and Deputy Inspectors Boiler and Pressure Vessel
Inspection Schedules**

Unless **the division grants** special permission, ~~is granted by the chief inspector~~ all inspectors shall **must** comply with the following **minimum** inspection schedule:

(1) Power boilers requiring internal inspections **must be inspected:**

(a) Internally- **every year, when physical construction of the boiler allows** inspection due within 180 days prior to inspection due date; and

(b) Externally- **every year, while under pressure** inspection due ~~within six months after internal inspection and while boiler is in operation.~~

(2) Power boilers not requiring internal inspection: External inspection due within 180 days prior to inspection due date.

(3) (2) Cast iron boilers **must be inspected:** ~~Externally-~~ inspection due every two years, **while under pressure** within 180 days prior to inspection due date.

(4) (3) Low pressure steam, hot water supply and hot water heating boilers **must be inspected**, construction of which permits an internal inspection:

(a) Internally- inspection due every two years, **when physical construction of the boiler allows** within 180 days prior to inspection due date; and

(b) Externally- inspection due **every two years, while under pressure** during intervening year, and while boiler is in operation.

(4) Prior to March 1, 2007, hot water heating and hot water supply boilers must be inspected:

(a) Internally- every two years, when physical construction of the boiler allows; and

(b) Externally- every two years, while under pressure.

(5) Effective March 1, 2007, hot water heating and hot water supply boilers must be inspected:

(a) Internally- every six years, when physical construction of the boiler allows; and

(b) Externally- every two years, while under pressure.

~~(5) Low pressure steam, hot water heating and hot water supply boilers the construction of which does not permit an internal inspection: External inspection due every two years within 180 days prior to inspection due date and while the boiler is in operation.~~

~~(6) Pressure vessels containing anhydrous ammonia intended for use as fertilizer: **must be inspected** Externally inspection due every three years within 180 days prior to inspection due date.~~

~~(7) **Prior to September 1, 2007, f**Fixed vessels, containing only air, not located at a place of public assembly, not exceeding 20 cubic feet in volume, and operated at gauge pressures of not more than 200 pounds per square inch and otherwise qualifying for a five year inspection frequency **must be inspected:**~~

~~**(a) Internally- inspection, subject to section (11)** of this rule; and~~

~~**(b) Externally- inspection due every five years** within 180 days prior to inspection due date.~~

(8) Effective September 1, 2007, fixed vessels, containing only air, not located at a place of public assembly, not exceeding 20 cubic feet in volume, and operated at gauge pressures of not more than 200 pounds per square inch must be inspected:

(a) Internally- subject to section (12) of this rule; and

(b) Externally- every six years.

~~(8)(9) Pressure vessels, not classified in sections (6), and (7) **and (8)** of this rule, and subject to internal corrosion or erosion **must be inspected:**~~

~~**(a) Internally- inspection, every two years, subject to section (12) of this rule** at the discretion of the inspector subject to section (11) of this rule; and~~

~~**(b) Externally- inspection due every two years** within 180 days prior to the inspection due date.~~

~~(9)(10) Unfired pressure vessels, not classified in sections (6), and (7) **and (8)** of this rule, and not subject to internal corrosion **must be inspected:** Externally- inspection due every two years within 180 days prior to the inspection due date except for vessels classified under OAR~~

918-225-0410 which shall be externally inspected every five years within 180 days prior to the inspection due date.

~~(10)~~**(11)** Pressure piping systems containing refrigerants, steam or pressurized condensate: Inspection during fabrication, installation, repair or alteration for verification of compliance with material, welding, brazing and structural support requirements. The inspector may require other tests to verify quality of weldments. This rule does not apply to welded repair of pressure piping under OAR 918-225-0720.

~~(11)~~**(12)** The inspector may waive an internal inspection, under sections (7), ~~and (8)~~ **and (9)** of this rule if the inspector believes from alternate inspection methods an internal inspection is not necessary to verify the safe condition of the vessel. ~~Other tests may be ordered.~~

~~(13)~~ **(13) An inspector may require additional internal or external inspections, or tests, other than those required in this rule, if the inspector has reason to believe that the boiler or pressure vessel does not meet minimum safety standards.**

~~(12)~~ **(14)** Failure to comply with sections (1) through ~~(11)~~**(13)** of this rule may cause inspections to be performed by a deputy inspector per ORS 480.570(5) as directed by the chief inspector.

Stat. Auth.: ORS **480.545, 480.550**, 480.560

Stats. Implemented: ORS **480.545, 480.550**, 480.560

Hist.: DC 17, f. 7-31-72, ef. 8-15-72; DC 12-1980, f. & ef. 9-12-80; BCA 1-1987, f. & ef. 7-1-87; Renumbered from 814-025-0075; BCA 22-1992(Temp), f. 12-15-92, cert. ef. 1-1-93; BCA 4-1993, f. & cert. ef. 4-5-93; BCA 36-1993, f. 12-30-93, cert. ef. 1-1-94; Renumbered from 918-225-0175; BCD 18-1996, f. & cert. ef. 9-17-96; BCD 18-1997, f. 12-3-97, cert. ef. 1-1-98; BCD 36-2000, f. 12-29-00, cert. ef. 1-1-01