CHAPTER 183

ELEVATORS AND BOILERS; REGULATIONS

183.375 DIVISION OF BOILER INSPECTION.

[For text of subd 1, see M.S.1986]

Subd. 2. **Chief of division.** Subject to the provisions of chapter 43A, the commissioner shall appoint a chief and may appoint a deputy chief of the division of boiler inspection. The appointee shall be a qualified steam engineer with at least ten years of operation experience as such, five years of boiler inspection experience, and shall be licensed as a chief Grade A engineer in this state and shall possess a current commission issued by the national board of boiler and pressure vessel inspectors. Inspectors employed in the division of boiler inspection may utilize up to five years of equivalent experience as inspectors, in satisfying the requirement of ten years of experience as steam engineers for the chief and deputy chief positions.

[For text of subds 3 to 6, see M.S.1986]

History: *1987 c 70 s 1*

183.411 STEAM FARM TRACTION ENGINES; SHOW BOILERS AND ENGINES.

[For text of subd 1, see M.S.1986]

Subd. 2. **Inspection.** When used only for display and demonstration purposes, steam farm traction engines, portable and stationary show engines and portable and stationary show boilers shall be inspected every two years according to law.

(a) Boilers or show engines of lap seam construction not certified in Minnesota or previously certified in Minnesota but that have been repaired or altered after certification, may be certified in Minnesota if:

(1) all alterations have been done in accordance with American National Standard ANSI/NB23 R-404 or R-505; or

(2) form R-1, report of alteration, has been prepared by a registered professional engineer with verification by the authorized inspection agency responsible for the in-service inspection of the object in accordance with American National Standard ANSI/NB23 R-502; or

(3) the engine has received a certificate allowing operation, or repairs have been authorized under American National Standard ANSI/NB23 R-404.1, R-404.2, or R-404.3 in Minnesota or another jurisdiction that accepts the provisions of American National Standard ANSI/NB23 and an inspection has been completed by an inspector certified in Minnesota according to the standards set in paragraph (b).

(b) A hobby boiler or show engine, not certified in Minnesota or any other jurisdiction must successfully complete, at the owner's expense, inspection by:

(1) full radiographic examination of the long or longitudinal seam; and

(2) ultrasonic examination for metal thickness (for purposes of calculating the maximum allowable working pressure the thinnest reading shall be used - see also American National Standard ANSI/NB23 I-303.8); and

(3) magnetic particle or radiographic examination of areas where dye penetrant testing shows possible cracks; and

(4) hydrostatic testing at 1-1/2 maximum allowable working pressure.

(c) Further each such object shall successfully complete an inspection of:

(1) the fusible plug;

(2) the safety valve, which must be of American Society of Mechanical Engineer's approved design and set at the maximum allowable working pressure and sealed in an appropriate manner not allowing tampering with the valve setting without destroying the seal; and

(3) the boiler power piping.

Any longitudinal cracks found in riveted longitudinal seams requires that the vessel be sealed and not approved for use in Minnesota. If the boiler or show engine is jacketed, the jacket must be removed prior to inspection.

Subd. 2a. **Inspection fees.** The commissioner may set fees for inspecting traction engines, show boilers, and show engines pursuant to section 16A.128.

[For text of subds 3 and 4, see M.S.1986]

History: *1987 c 70 s 2,3*

183.42 INSPECTION EACH YEAR.

Every owner, lessee, or other person having charge of boilers, pressure vessels or any boat subject to inspection under this chapter shall cause the same to be inspected by the division of boiler inspection. Boilers and boats subject to inspection under this chapter shall be inspected at least annually and pressure vessels inspected at least every two years. A person who fails to have the inspection required by this section shall pay to the commissioner a penalty in the amount of the cost of inspection up to a maximum of $1,000.

History: *1987 c 70 s 4*

183.545 FEES FOR INSPECTION.

[For text of subds 1 to 3, see M.S.1986]

Subd. 4. **Applicants fees.** The commissioner shall, pursuant to section 16A.128, set the fee for an examination of an applicant for the following licenses:

(a) chief engineer's license;

(b) first class engineer's license;

(c) second class engineer's license;

(d) special engineer's license;

(e) traction engineer's license; and

(f) pilot's license.

If an applicant, after an examination, is entitled to receive a license, it shall be issued without the payment of any additional charge. Any license so issued expires one year after the date of its issuance. An engineer's license may be renewed upon application therefor and the payment of an annual renewal fee as set by the commissioner pursuant to section 16A.128.

Subd. 5. [Repealed, 1987 c 70 s 7]

[For text of subds 6 to 9, see M.S.1986]

History: *1987 c 70 s 5*

183.56 EXCEPTIONS.

The provisions of sections 183.38 to 183.62, shall not apply to:

(1) boilers in buildings occupied solely for residence purposes with accommodations for not more than five families;

(2) railroad locomotives operated by railroad companies for transportation purposes;

(3) air tanks installed on the right-of-way of railroads and used directly in the operation of trains;

(4) boilers and pressure vessels under the direct jurisdiction of the United States;

(5) unfired pressure vessels having an internal or external working pressure not exceeding 15 p.s.i.g. with no limit on size;

(6) pressure vessels used for storage of compressed air not exceeding five cubic feet in volume and equipped with an American Society of Mechanical Engineers code stamped safety valve set at a maximum of 100 p.s.i.g.;

(7) pressure vessels having an inside diameter not exceeding six inches;

(8) pressure vessels with a nominal water containing capacity of 120 gallons or less for containing water under pressure including those containing air the compression of which serves only as a cushion;

(9) boiler or pressure vessels located on farms used solely for agricultural or horticultural purposes;

(10) tanks or cylinders used for storage or transfer of liquified petroleum gases;

(11) unfired pressure vessels in petroleum refineries;

(12) an air tank or pressure vessel which is an integral part of a passenger motor bus, truck, or trailer;

(13) hot water heating and other hot liquid boilers not exceeding a heat input of 750,000 BTU per hour;

(14) hot water supply boilers (water heaters) not exceeding a heat input of 500,000 BTU per hour, a water temperature of 210 degrees Fahrenheit, a nominal water capacity of 120 gallons, or a pressure of 160 p.s.i.g.;

(15) a laundry and dry cleaning press not exceeding five cubic feet of steam volume;

(16) pressure vessels operated full of water or other liquid not materially more hazardous than water, if the vessel's contents' temperature does not exceed 140 degrees Fahrenheit or a pressure of 200 p.s.i.g.; and

(17) steam powered turbines at paper-making facilities which are powered by steam generated by municipal steam district facilities at a remote location.

An engineers license is not required for hot water supply boilers.

An engineers license is not required for boilers, steam cookers, steam kettles, steam sterilizers or other steam generators not exceeding 100,000 BTU per hour input, 25 kilowatt, 2-1/2 horsepower or a pressure of 15 p.s.i.g.

Electric boilers not exceeding a maximum working pressure of 50 p.s.i.g., maximum of 30 kilowatt input or three horsepower rating shall be inspected as pressure vessels and shall not require an engineer license to operate.

History: *1987 c 70 s 6; 1987 c 382 s 1*