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**IDAPA 17
TITLE 04
Chapter 06**

17.04.06 - BOILER AND PRESSURE VESSEL SAFETY CODE 6

000. LEGAL AUTHORITY.

Pursuant to the provisions of Section 72-508, Idaho Code, the Industrial Commission has the authority to promulgate and adopt reasonable rules for effecting the purposes of the Workers' Compensation Act. (7-1-93)

001. TITLE AND SCOPE.

These rules shall be cited as IDAPA 17, Title 04, Chapter 06, "Boiler and Pressure Vessel Safety Code 6," and shall be applicable to all boiler and pressure vessels manufactured or installed in the State of Idaho, except those specifically exempted in these rules. (7-1-93)

002. WRITTEN INTERPRETATIONS.

There are no written statements which pertain to the interpretation of these rules. (7-1-93)

003. ADMINISTRATIVE APPEALS.

There are no provisions for administrative appeal of these rules. (7-1-93)

004. (RESERVED).

005. INCLUSIVE GENDER.

For all sections and subsections of these rules, the terms and references used in the masculine include the feminine and vice versa, as appropriate. (7-1-93)

006. SEVERABILITY.

The sections and subsections of these rules are severable. If any rule, or part thereof, or the application of such rule, or the application of such rule to any person or circumstance is declared invalid, that invalidity does not affect the validity of any remaining portion. (7-1-93)

007. -- 019. (RESERVED).

020. DEFINITIONS.

01. Boiler. A closed vessel in which water is heated, steam is generated, steam is superheated, or any combination thereof, under pressure or vacuum by the direct application of heat from the combustion of fuels, or from electricity or nuclear energy. This term "Boiler" shall include fired units for heating or vaporizing liquids other than water where these units are separate from processing systems and are complete within themselves, and related appurtenances. (8-26-85)

02. Certificate of Competency. A certificate issued by the National Board of Boiler and Pressure Vessel Inspectors or other national agency recognized by the Director, the State of Idaho, or certificate issued by another state which has standards equal to those of the State of Idaho and which recognizes the certificate of competency issued by or on behalf of the State of Idaho. (8-26-85)

03. Certificate of Inspection. A certificate issued by a person holding a certificate of competency, issued to a person or persons owning or operating boilers or pressure vessels. (8-26-85)

04. Commission. The Industrial Commission of the State of Idaho. (8-26-85)

05. Condemned Boiler or Pressure Vessel. A boiler or pressure vessel that has been inspected and declared unsafe, or disqualified by legal requirements by an inspector qualified to take such action who has applied a stamping or marking designating its rejection. (8-26-85)

06. Department. The Department of Labor and Industrial Services. (8-26-85)

07. Director. The Director of the Idaho Department of Labor and Industrial Services. (8-26-85)
08. Electric Boiler. A boiler in which the source of heat is electricity. (8-26-85)
09. External Inspection. An inspection when a boiler or pressure vessel in operating condition. (8-26-85)
10. Heating Boiler. A steam boiler operated at pressure not exceeding fifteen (15) psig, or hot-waterheating boiler at pressure not exceeding one hundred and sixty (160) psig and temperatures not exceeding two hundred and fifty (250) F. (8-26-85)
11. High Pressure, High Temperature Water Boiler. A water boiler operating at pressure exceeding one hundred and sixty (160) psig or temperature exceeding two hundred and fifty (250) F. (8-26-85)
12. Hot-Water-Supply Boiler. A boiler furnishing hot water to be used externally to itself at pressure not exceeding one hundred and sixty (160) psig and temperatures not exceeding two hundred and fifty (250) F. (8-26-85)
13. Inspector. A person holding a certificate of competency authorized by the Director to conduct inspections of boilers and pressure vessels. (8-26-85)
14. Internal Inspection. An inspection made when a boiler or pressure vessel is shut down and handholes, manholes, or other inspection openings are opened for inspection of this interior. (8-26-85)
15. Major Repair. A repair upon which the strength of a boiler depends. (8-26-85)
16. Miniature Boiler. Any boiler which does not exceed any of the following limits: (8-26-85)
 - a. Sixteen (16) inches diameter of shell, (8-26-85)
 - b. Twenty (20) square feet heating surface, (8-26-85)
 - c. Five (5) cubic feet gross volume, exclusive of casing and insulation, (8-26-85)
 - d. One hundred (100) psig maximum allowable working pressure. (8-26-85)
17. New Boiler Installation. Insofar as the application of the Boiler Code is concerned, any boiler constructed, installed, placed in operation, or "contracted for" after January 1, 1961. (8-26-85)
18. Portable Boiler. An internally fired boiler which is primarily intended for temporary location, the construction and usage of which is obviously portable. (8-26-85)
19. Power Boiler. A boiler in which steam or other vapor generated at a pressure of more than 15 psig. (8-26-85)
20. Pressure Vessel. A closed vessel in which pressure is obtained from an external source, or from an indirect application of heat, including but not limited to, evaporators, heat exchangers or vessels in which steam is generated incidental to the operating of a processing system containing two or more vessels. (8-26-85)
21. PSIG. Pounds per square inch gauge. (8-26-85)
22. Reinstated Boiler or Pressure Vessel. A boiler or pressure vessel removed from its original setting and erected at the same location or erected at a new location without change of ownership. (8-26-85)
23. Related Appurtenances. Any equipment instrumental to the safe operation of a boiler or pressure vessel. (8-26-85)

24. Secondhand Boiler or Pressure Vessel. A boiler or pressure vessel of which both the location and ownership have ben changed after primary use. (8-26-85)

25. Special Inspector. An inspector holding a certificate of competency, and/or a Commission issued by the National Board of Boiler and Pressure Vessel Inspectors employed by an insurance carrier who may and does write policies of boiler and pressure vessel insurance in Idaho. (8-26-85)

021. APPLICABILITY.

01. Construction. All boiler and pressure vessels manufactured or installed in the State of Idaho or shipped into Idaho must be constructed in accordance with the requirements of American Society of Mechanical Engineers (A.S.M.E.) Boiler Code (1974) (1983) and bear the stamp of the National Board of Boiler and Pressure Vessel Inspectors. (8-26-85)

02. Installation. All boilers and pressure vessels must be installed and maintained in conformity with the requirements of the A.S.M.E. Boiler Code (1974) (1983), Chapters (IV) I through (XI) IX of the National Board of Boiler and Pressure Vessel Inspectors Inspection Code (1972) (1983), and this Code. (8-26-85)

03. Inspection. All boiler and pressure vessels installed or operated in the State of Idaho shall have an inspection conducted by a person holding a certificate of competency which must result in the issuance of a certificate of inspection before such vessel is placed into operation. (8-26-85)

04. Reports. Whenever an inspection is made by a person holding a certificate of competency, a copy of the inspection report must be filed with the Department. Such inspection reports shall be submitted on forms as outlined in the National Board Inspection Code. (8-26-85)

05. Posting Certificates of Inspection. Certificates of inspection issued for boilers shall be posted under glass or similarly protected, in the room containing the boiler. Certificates issued for pressure vessel certificates shall be posted in like manner, if convenient, or filed where they will be readily available for examination. (8-26-85)

022. EXEMPTIONS.

01. Applicability. This Code shall not apply to the following: (8-26-85)

a. Listed or approved boilers or pressure vessels (hot water tanks) with a nominal water capacity of one hundred and twenty (120) gallons or less having a heat input of two hundred thousand (200,000) BTUs per hour or less used for hot water supply at a pressure of one hundred and sixty (160) pounds per square inch or less and at temperatures of two hundred (200) F or less. (8-26-85)

b. Boilers and pressure vessels under federal control. (8-26-85)

c. Pressure vessels used for transportation and storage of compressed gasses when constructed in compliance with specifications of the U.S. Department of Transportation and when charged with gas marked, maintained, and periodically requalified for use, as required by appropriate regulations of the U.S. Department of Transportation. (8-26-85)

d. Air tanks installed on the right of way of railroads and used directly in the operation of trains. (8-26-85)

e. Pressure vessels that do not exceed: (8-26-85)

i. Five (5) cubic feet in volume and two hundred and fifty (250) psig; or (8-26-85)

ii. One and one half (1 1/2) cubic feet in volume and six hundred (600) psig; or (8-26-85)

iii. An inside diameter of six (6) inches, with no limitations on pressure. (8-26-85)

f. Pressure vessels operating at a working pressure not exceeding one hundred and twenty five (125) psig. (8-26-85)

g. Vessels with a nominal water containing capacity of one hundred twenty (120) gallons or less containing water under pressure, including those containing air, the compression of which serves only as a cushion. (8-26-85)

02. Exemptions. The following boilers and pressure vessels shall be exempt from the requirements of Section II (1), (2), (3), (4), (5). (8-26-85)

a. Heating boilers which are located in private residences or in apartment houses of less than six (6) family units. (8-26-85)

b. Pressure vessels containing only water under pressure for domestic purposes, including those containing air, the compression of which serves only as a cushion or air lift pumping system, when located in private residences or in apartment houses of less than six (6) family units. (8-26-85)

023. INSPECTIONS.

01. Method. Each boiler and pressure vessel used or proposed to be used within the State of Idaho, except boilers or pressure vessels specifically exempted, shall be thoroughly inspected as to their construction, installation and condition as follows: (8-26-85)

a. Power boilers annually, both internally and externally, while not under pressure. Annual external inspection while under pressure, if possible. (8-26-85)

b. All low pressure boilers shall be inspected annually. (8-26-85)

i. Steel steam boilers inspection: 1 annual external and an internal every three (3) years. (8-26-85)

ii. Steel hot water boilers: external annual and internally at the discretion of the commissioned inspector. (8-26-85)

iii. Cast iron boilers shall receive an external inspection annually and the inspector shall require a more detailed inspection if conditions warrant. (8-26-85)

c. Pressure vessels shall receive an external inspection triennially with an internal inspection at the discretion of the inspector. (8-26-85)

d. A grace period of two (2) months beyond the periods specified in subsection 1 and 2 may elapse between certificate inspection. (8-26-85)

e. Each boiler and pressure vessel shall be inspected during construction and after completion by an authorized inspector who has a current commission issued by the National Board. (8-26-85)

f. All welding and installation of boilers and power piping shall be in strict accord with the A.S.M.E. Boiler and Pressure Code (1974) (1093), and the A.S.M.E. Power Piping Code (ANSI B31.1) (1974) (1983). Each manufacturer and contractor shall be responsible for the welding done by this organization and shall have each welder tested in accordance with the A.S.M.E. requirements prior to performing an welding covered under this Code. (8-26-85)

02. Inspectors. All insurance carriers who may or do write policies of boiler and pressure vessel insurance in the State of Idaho are required to send the Department the name of each special inspector in their employment who will or may be making inspections in Idaho together with a copy of the individual's certificate of competency or National Board Commission. (8-26-85)

03. Identification Cards. Upon receipt of such notification, the Department will issue to such inspector

an identification card certifying that he/she holds a commission and is authorized to inspect boiler and pressure vessel installations in the State of Idaho. Such identification card shall expire December 31 of each year or upon discontinuance of employment with the carrier upon whose request it was issued. (8-26-85)

04. Remuneration. Special inspectors referred to in subsection 7 (a) and (b) shall receive no salary from, nor shall any of their expenses be paid by the state of Idaho. (8-26-85)

024. BOILER ATTENDANTS.

01. Requirements. Boilers that do not specifically contain all the fail safe features necessary to operate fully unattended shall have qualified boiler attendants. (8-26-85)

02. Qualifications. A boiler attendant will be deemed to be qualified if he/she is familiarized with the operating procedures of the boiler or boilers that he/she is operating and has been properly instructed in their safe operation. (8-26-85)

03. Competency. The recommended minimum standards to be used by the employer to determine the competency of an attendant are: (8-26-85)

- a. Able to explain the functions and operation of all controls on the boiler or boilers. (8-26-85)
- b. Able to light off the boiler or boilers in a safe manner. (8-26-85)
- c. Know all possible methods of feeding water to the boiler or boilers. (8-26-85)
- d. Know how to blow down the boiler or boilers in a safe manner. (8-26-85)
- e. Know what would happen if the water was permitted to drop below the lowest possible operating level. (8-26-85)
- f. Know what would happen if the water in the boiler was carried too high. (8-26-85)
- g. Know how to shut down the boiler or boilers. (8-26-85)

025. -- 999. (RESERVED)