



INFORMATION BULLETIN

NO: B-B1 100308 2

CHANGES TO POWER ENGINEERS, BOILER, PRESSURE VESSEL AND REFRIGERATION SAFETY REGULATION (PEBPVRSR).
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Date of Issue: March 8, 2010

Topic: Announcement of Amendments to the Power Engineers, Boiler, Pressure Vessel and Refrigeration Safety Regulation

The Province of British Columbia has amended the Power Engineers, Boiler, Pressure Vessel and Refrigeration Safety Regulation (PEBPVRSR). The amendments provide for two changes to the BC safety system. The changes are effective immediately. A complete copy of the changes is attached to this Information Bulletin.

The first change details the exemption from prescribed staffing requirements for low pressure thermal fluid plants. The change is intended to recognize advances in control technology for these non-pressurized systems. The changes to sections 2, 74, 79 and the addition of section 84.1 to the PEBPVRSR specify that low pressure thermal fluid plants of any size may be exempt from staffing requirements provided that they meet the criteria specified in the PEBPVRSR. Generally, those plants may be exempted from staffing requirements if they have automated control systems, commissioning systems, functional testing programs and maintenance programs that have been approved by a professional engineer. All of these documents have to be registered by a Provincial Safety Manager. Owners will be required to ensure that functional testing and maintenance programs are carried out as approved by a professional engineer.

The second change amends the former qualification requirements for Boiler Safety Officers. Previously, only first class power engineers or, in certain circumstances, second class power engineers were eligible to become Boiler Safety Officers. Under the revised section 65, the prerequisite for application is that the applicant must meet the qualification requirements of the National Board of Boiler Inspectors (NBBI) for obtaining a National Board Commission. Those qualification requirements can be viewed at the NBBI website (www.nationalboard.org). The intent of this change is to broaden the skill set and prospective applicant pool for Boiler Safety Officers.

Greg Paddon
Director Technical Programs



References:

Bill 19 – 2003	Safety Standards Act
B.C. Reg. 105/2004	Safety Standards General Regulation
B.C. Reg. 104/2004	Power Engineers, Boiler, Pressure Vessel & Refrigeration Safety Regulation

For more information on the British Columbia Safety Authority, please visit our web site at:
www.safetyauthority.ca

PROVINCE OF BRITISH COLUMBIA
REGULATION OF THE MINISTER OF HOUSING
AND SOCIAL DEVELOPMENT

Safety Standards Act

Ministerial Order No. M 048

I, Rich Coleman, Minister of Housing and Social Development, order that the Power Engineers, Boiler, Pressure Vessel and Refrigeration Safety Regulation, B.C. Reg. 104/2004, is amended as set out in the attached Schedule.

Feb 18/10

Date



Minister of Housing and Social Development

(This part is for administrative purposes only and is not part of the Order.)

Authority under which Order is made:

Act and section:- Safety Standards Act, S.B.C. 2003, c. 39, s. 88

Other (specify):- M62/2004

February 11, 2010

R/123/2010/27

SCHEDULE

- 1** *Section 2 (1) of the Power Engineers, Boiler, Pressure Vessel and Refrigeration Safety Regulation, B.C. Reg. 104/2004, is amended by adding the following definition:*

“professional engineer” means a person registered under the *Engineers and Geoscientists Act* as a professional engineer; .

- 2** *Section 6 is amended by adding the following paragraph:*

- (l) a low pressure thermal fluid plant with a boiler capacity greater than 150 m² if the plant is equipped with an automated control system that
- (i) monitors performance of the plant, including all systems related to automated operation, and automatically alters the operation of the plant to ensure it is operating safely, including during start up and shut down operations,
 - (ii) is designed so that any failure of the automated control system will cause the plant to go to a predetermined safe state, and
 - (iii) has been registered by a provincial safety manager in accordance with section 84.1.

- 3** *Section 65 is repealed and the following substituted:*

Requirements for a certificate of qualification as a safety officer

- 65** A provincial safety manager may issue a certificate of qualification as a safety officer for the purposes of this regulation to an individual who
- (a) holds a valid National Board Commission as a boiler and pressure vessel inspector issued by the National Board of Boiler and Pressure Vessel Inspectors, or
 - (b) in the opinion of the provincial safety manager, meets the qualification criteria for the commission referred to in paragraph (a).

- 4** *Section 74 (1) is amended by adding the following paragraph:*

- (d) if the plant has an automated control system described in section 6 (l) (i) and (ii), functional testing and maintenance programs for the system are carried out.

- 5** *Section 79 is amended by adding “or a plant described in section 6 (l)” after “pressure vessel plant”.*

- 6** *The following section is added:*

Registration of control systems

- 84.1** (1) In this section, **“automated control system”** means an automated control system described in section 6 (l) (i) and (ii) and includes the commissioning programs, functional testing programs and maintenance programs for the system.

- (2) The design of all automated control systems, including all alterations of previously registered designs, must be registered with a provincial safety manager.
- (3) To register a design or an alteration to a design, the owner of the automated control system or the engineer, manufacturer or designer of the automated control system, if the engineer, manufacturer or designer is acting as an agent for the owner, must submit, for review by a provincial safety manager, an application that includes
 - (a) all design specifications, including information respecting safeguards, controls, interlocks, logic data and system commissioning and testing,
 - (b) an approval by a professional engineer of the automated control system's design, and
 - (c) any additional information with respect to the automated control system required by a provincial safety manager.
- (4) Registration of a design or an alteration to a design must be obtained before installation is commenced.
- (5) If, in the opinion of a provincial safety manager, a design registered under subsection (2) is subsequently found to be defective in any detail, the design must be revised by the person who submitted the design and those revisions must be approved by the provincial safety manager.
- (6) The registration of a design or an alteration to a design does not relieve the professional engineer or equipment manufacturer of liability for the design and the installation of the automated control system.