



DIRECTIVE

No: D-BP 2011-01
REVISION: 01

INSPECTION REQUIREMENTS FOR PIPING SYSTEMS AND PIPING COMPONENTS

This Directive is being issued by a provincial safety manager pursuant to section 30 of the Safety Standards Act.

Date of Issue: January 25, 2012

General Details

This directive is being issued to owners, licensed contractors, consulting engineers, manufacturers and designers to specify the inspection requirements of Section 82(c) of the Power Engineers, Boiler, Pressure Vessel and Refrigeration Safety Regulation for non-boiler external piping system components.

Specific Details

Pressure piping components which are not boiler external piping as defined in ASME Section I, such as pipe spools and piping systems installed on skid packages must conform to the design registration and inspection requirements of Section 82 of the Power Engineers, Boiler, Pressure Vessel and Refrigeration Safety Regulation. The requirements for inspection are:

1. The design of piping systems greater than NPS 3 shall be registered with the BCSA. The code of construction for piping systems shall be the appropriate ASME B31 series.
2. **Piping that is constructed in British Columbia:**

Piping systems shall be constructed and installed by a licensed contractor. Prior to construction or installation the contractor shall notify a safety officer of the work. On the completion of construction or installation, the contractor must notify a safety officer that the work is complete and must complete FRM-1329 (Construction Data Report for Piping Systems Manufactured Inside British Columbia) for all piping systems. The piping system may be inspected by a safety officer who may witness or require a pressure test report before the piping system is placed in service. If the piping is inspected by a safety officer the construction data report shall be certified by the safety officer.

3. **Piping that is constructed in Canada in a province other than British Columbia:**

Piping constructed in a province other British Columbia by a manufacturer that is authorized by the jurisdictional authority of the province for the construction of pressure piping must be inspected as follows:

- a) Piping constructed by a manufacturer who holds a jurisdictional certificate of authorization for the construction of pressure piping, may be inspected by the authorized representative of the



manufacturer in accordance with the manufacturing company's certification of authorization or by a jurisdictional inspector. The construction shall be certified on form FRM-1330 (Construction Data Report for Piping Systems Manufactured Outside British Columbia) and must be completed by the manufacturer. If the piping is inspected by a jurisdictional inspector the construction data report shall be certified by the inspector.

- b) Piping constructed by a manufacturer who holds a jurisdictional certificate of authorization for the construction of pressure piping that requires inspection by a jurisdictional inspector, must be inspected by the authorized representative of the manufacturer in accordance with the manufacturing company's certification of authorization and by a jurisdictional inspector. The construction shall be certified on form FRM-1330 (Construction Data Report for Piping Systems Manufactured Outside British Columbia) and must be completed by the manufacturer and certified by the jurisdictional inspector.

4. Piping that is constructed outside Canada

All piping that is constructed outside of Canada must be inspected and certified by an Authorized Inspector employed by an Authorized Inspection Agency accredited by the ASME. The inspection of the piping system and the certification of inspection must be documented using form FRM-1330 (Construction Data Report for Piping Systems Manufactured Outside British Columbia) and must be completed by the manufacturer and certified by the Authorized Inspector.

Once installed in British Columbia FRM-1329 shall be completed as a final data report by the licensed contractor and the owner's inspector.

A handwritten signature in black ink that reads "C. J. Hurd." The signature is written in a cursive style.

Provincial Safety Manager – Boiler Technology

References:

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



Relevant Legislation

Power Engineers, Boiler, Pressure Vessel & Refrigeration Safety Regulation

Design registration and inspection requirements

82 A person must not perform regulated work on a boiler, a pressure vessel, a pressure piping system, a fitting, a plant or refrigeration equipment for use in British Columbia unless

- (a) the original design and the altered design, if any, have been registered by a provincial safety manager,
- (b) the regulated work is done in accordance with that design, and
- (c) if required by a safety officer, it is inspected, investigated and tested during construction and after completion.

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