Department of Labor and Industry

Proposed Permanent Rules Governing High Pressure Piping Systems

5230.0005 DEFINITIONS.

[For text of subps 1 to 15, see M.R.]

Subp. 15a. **Registered unlicensed individual.** "Registered unlicensed individual" means an individual who is:

A. employed in the trade of the practical construction and installation of high pressure piping and appurtenances by a licensed high pressure piping business; and

B. registered with the department under part 5230.0035.

[For text of subps 16 and 17, see M.R.]

5230.0220 BIOPROCESS PIPING.

Subpart 1. **ASME BPE.** All bioprocess piping must meet the requirements of ASME BPE. For purposes of this chapter, "ASME BPE" means the ~~2005~~ 2012 edition of the Bioprocessing Equipment Standard adopted and published by ASME, Three Park Avenue, New York, New York 10016. ASME BPE is incorporated by reference and made part of the code for high pressure piping systems. ASME BPE is not subject to frequent change and a copy of ASME BPE is available in the office of the commissioner of labor and industry and at the State Law Library, 25 Rev. Dr. Martin Luther King Jr. Blvd., Saint Paul, Minnesota 55155.

[For text of subp 2, see M.R.]

5230.0260 SCOPE.

Valves, fittings, and piping for boilers, as prescribed in the ASME Code for Power Boilers, are within the scope for this code but provisions of the ASME Code for Power Boilers shall govern where they exceed corresponding requirements of this code. For purposes of this chapter, "ASME Code for Power Boilers" means the ~~2007~~ 2013 edition

of the ASME Boiler and Pressure Vessel Code, section I, as adopted and published by ASME, Three Park Avenue, New York, New York 10016. The ASME Code for Power Boilers is incorporated by reference in the code for steam or heating media piping systems. The ASME Code for Power Boilers is not subject to frequent change~~,~~ and a copy is available in the office of the commissioner of labor and industry and at the State Law Library, 25 Rev. Dr. Martin Luther King Jr. Blvd., Saint Paul, Minnesota 55155.

Economizers, heaters, tanks, and other pressure vessels are outside the scope of this code, but connecting piping shall conform to the requirements herein specified.

5230.0265 ADOPTION OF ASME B31.1 BY REFERENCE.

For purposes of this chapter, "ASME B31.1" means the ~~2007 revision~~ 2012 edition of the standard for power piping, as approved and published by ASME, Three Park Avenue, New York, New York 10016. ASME B31.1 is incorporated by reference and made part of the code for steam or heating media piping systems, except as amended in this chapter. Portions of this chapter reproduce text from ASME B31.1. ASME B31.1 is not subject to frequent change and a copy of ASME B31.1 is available in the office of the commissioner of labor and industry and at the State Law Library, 25 Rev. Dr. Martin Luther King Jr. Blvd., Saint Paul, Minnesota 55155. ASME B31.1 is copyright by ASME. All rights reserved.

5230.0275 CHAPTER I, SCOPE AND DEFINITIONS.

Subpart 1. **Section 100.1.2.** The first paragraph of part (A) of ASME B31.1, section 100.1.2 is amended to read as follows:

(A) This code covers boiler external piping as defined below for power boilers and high temperature, high pressure water boilers in which: steam or vapor is generated at a pressure of more than 15 p.s.i. gauge; and high temperature water or other medium used for heating is generated at pressures exceeding 30 p.s.i. gauge and temperatures exceeding 250 degrees Fahrenheit (120 degrees Celsius).

Subp. 2. **Section 100.1.3.** Subparagraph (F) of ASME B31.1, section 100.1.3, is deleted.

5230.5001 INCORPORATIONS BY REFERENCE.

Subpart 1. **ANSI/IIAR 2.** For purposes of this chapter, "ANSI/IIAR 2" means the 2008 revision with addendums A and B of the standard for Equipment, Design, and Installation of Closed-Circuit Ammonia Mechanical Refrigerating Systems, as approved by the American National Standards Institute and as published by the International Institute of Ammonia Refrigeration, 1110 North Glebe Road, Suite 250, Arlington, Virginia 22201. ANSI/IIAR 2 is incorporated by reference and made part of the code for ammonia refrigeration systems, except as amended in this chapter. Portions of this chapter reproduce text from ANSI/IIAR 2. ANSI/IIAR 2 is not subject to frequent change and a copy of ANSI/IIAR 2 is available in the office of the commissioner of labor and industry and at the State Law Library, 25 Rev. Dr. Martin Luther King Jr. Blvd., Saint Paul, Minnesota 55155. ANSI/IIAR 2 is copyrighted by the International Institute of Ammonia Refrigeration. All rights reserved.

Subp. 2. **ASME B31.5.** For purposes of this chapter, "ASME B31.5" means the ~~2006~~ 2013 revision of the standard for ammonia refrigeration piping as approved and published by ASME, Three Park Avenue, New York, New York 10016. ASME B31.5 is incorporated by reference and made part of the code for ammonia refrigeration piping. ASME B31.5 is not subject to frequent change and a copy of ASME B31.5 is available in the office of the commissioner of labor and industry and at the State Law Library, 25 Rev. Dr. Martin Luther King Jr. Blvd., Saint Paul, Minnesota 55155.

5230.5007 SECTION 11, OVERPRESSURE PROTECTION DEVICES.

[For text of subps 1 to 3, see M.R.]

Subp. 4. **Section 11.3.3.** ANSI/IIAR 2, section 11.3.3 of addendum A, is amended to read as follows:

4.1 **11.3.3.** The discharge piping from pressure relieving devices to atmosphere
4.2 shall be a minimum schedule 40 steel for all pipe sizes.

4.3 **5230.5920 QUALIFICATION OF WELDING PROCEDURES, WELDERS, AND**
4.4 **WELDING OPERATORS.**

4.5 [For text of subp 1, see M.R.]

4.6 Subp. 2. **Incorporation by reference.** For purposes of this chapter, "ASME section
4.7 IX" means the ~~2007 revision~~ 2013 edition of section IX of the Boiler and Pressure Vessel
4.8 Code, as approved and published by ASME, Three Park Avenue, New York, New York
4.9 10016. ASME section IX is incorporated by reference and made a part of this chapter.
4.10 ASME section IX is not subject to frequent change. A copy of ASME section IX is
4.11 available in the office of the commissioner of labor and industry and at the State Law
4.12 Library, 25 Rev. Dr. Martin Luther King Jr. Blvd., Saint Paul, Minnesota 55155.

4.13 [For text of subps 3 to 9, see M.R.]

Office of the Revisor of Statutes

Administrative Rules

TITLE: Proposed Permanent Rules Governing High Pressure Piping Systems

AGENCY: Department of Labor and Industry

MINNESOTA RULES: Chapter 5230

INCORPORATIONS BY REFERENCE: [See attached]

The attached rules are approved for
publication in the State Register

Sheree Speer

Sheree Speer
Senior Assistant Revisor

INCORPORATIONS BY REFERENCE:

Part 5230.0220, subpart 1: ASME BPE, 2012 edition of the Bioprocessing Equipment Standard adopted and published by ASME, Three Park Avenue, New York, New York 10016. ASME BPE is incorporated by reference and made part of the code for high pressure piping systems. ASME BPE is not subject to frequent change and is available in the office of the commissioner of labor and industry and at the State Law Library, 25 Rev. Dr. Martin Luther King Jr. Blvd., Saint Paul, Minnesota 55155.

Part 5230.0260: ASME Code for Power Boilers, 2013 edition of the ASME Boiler and Pressure Vessel Code, section I, as adopted and published by ASME, Three Park Avenue, New York, New York 10016. The ASME Code for Power Boilers is incorporated by reference in the code for steam or heating media piping systems. The ASME Code for Power Boilers is not subject to frequent change and is available in the office of the commissioner of labor and industry and at the State Law Library, 25 Rev. Dr. Martin Luther King Jr. Blvd., Saint Paul, Minnesota 55155.

Part 5230.0265: ASME B31.1, 2012 edition of the standard for power piping, as approved and published by ASME, Three Park Avenue, New York, New York 10016. ASME B31.1 is incorporated by reference and made part of the code for steam or heating media piping systems, except as amended in this chapter. Portions of this chapter reproduce text from ASME B31.1. ASME B31.1 is not subject to frequent change and is available in the office of the commissioner of labor and industry and at the State Law Library, 25 Rev. Dr. Martin Luther King Jr. Blvd., Saint Paul, Minnesota 55155. ASME B31.1 is copyright by ASME. All rights reserved.

Part 5230.5001, subpart 1: ANSI/IIAR 2, 2008 revision with addendums A and B of the standard for Equipment, Design, and Installation of Closed-Circuit Ammonia Mechanical Refrigerating Systems, as approved by the American National Standards Institute and as published by the International Institute of Ammonia Refrigeration, 1110 North Glebe Road, Suite 250, Arlington, Virginia 22201. ANSI/IIAR 2 is incorporated by reference and made part of the code for ammonia refrigeration systems, except as amended in this chapter. Portions of this chapter reproduce text from ANSI/IIAR 2. ANSI/IIAR 2 is not subject to frequent change and is available in the office of the commissioner of labor and industry and at the State Law Library, 25 Rev. Dr. Martin Luther King Jr. Blvd., Saint Paul, Minnesota 55155. ANSI/IIAR 2 is copyrighted by the International Institute of Ammonia Refrigeration. All rights reserved.

Part 5230.5001, subpart 2: ASME B31.5, 2006 2013 revision of the standard for ammonia refrigeration piping as approved and published by ASME, Three Park Avenue, New York, New York 10016. ASME B31.5 is incorporated by reference and made part of the code for ammonia refrigeration piping. ASME B31.5 is not subject to frequent change and is available in the office of the commissioner of labor and industry and at the State Law Library, 25 Rev. Dr. Martin Luther King Jr. Blvd., Saint Paul, Minnesota 55155.

Part 5230.5920, subpart 2: ASME section IX, 2013 edition of section IX of the Boiler and Pressure Vessel Code, as approved and published by ASME, Three Park Avenue, New York, New York 10016. ASME section IX is incorporated by reference and made a part of this chapter. ASME section IX is not subject to frequent change and is available in the office of the

commissioner of labor and industry and at the State Law Library, 25 Rev. Dr. Martin Luther King Jr. Blvd., Saint Paul, Minnesota 55155.