



Oregon

Kate Brown, Governor

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Board of Boiler Rules

Amended Meeting agenda

VII.A. draft rules amended

Tuesday, June 1, 2021, 9:30 a.m.

Live virtual-conference board meeting

Audio streamed via the [Internet](#)

I. Board business

- A. Call to order
- B. Roll call
- C. Approval of agenda and order of business
- D. Approval of the draft board meeting minutes of [March 2, 2021](#)
- E. Date of the next regularly scheduled meeting: *Sept. 14, 2021 (Holiday schedule)*

II. Public comment

The division is taking extra precautions for public meetings given concerns regarding the Coronavirus/COVID-19. Board members and staff will be connected by “GoToMeeting.” Because of these unusual circumstances, the division is taking steps to ensure an opportunity for written testimony and remote oral testimony for the public. Send your written testimony or request to provide oral public testimony to the boards coordinator 24 hours in advance of this meeting date. Requesting oral testimony for this meeting has a cutoff date of May 31, 2021, at noon. *(Additional instructions are at the end of the agenda).*

III. Reports

Program update

IV. Communications - None

V. Appeals - None

VI. Unfinished business - None

VII. New business

- A.** Board review and make [recommendation to the Administrator](#) for the 2021 Oregon Boiler Pressure Vessel Specialty Code (OBPVSC) **Amended draft rules**
- B.** Board review and [approve committee recommendations](#) for new continuing education course and instructor applications
- C.** Board review request from [HSI to be recognized as a national organization](#) and a nationally accredited continuing education provider for all courses submitted for the current code cycle

VIII. Announcements – None

IX. Adjournment

Please read carefully

Temporary instructions for submitting public testimony for board meetings:

- Please submit written testimony for consideration by noon the day before the scheduled meeting by email to debra.j.woods@oregon.gov.
- Include your name and the organization you represent (if any).
- List the board and agenda item to which your comments are related.
- Please include all related material.
- Expect an email from the boards coordinator, the chief, or the chair of the board acknowledging that your testimony has been received and will be presented to the board.
- *If you would like to be connected through GoToMeeting for oral testimony, please send an email to debra.j.woods@oregon.gov and the boards coordinator will send you specific instructions on the process by email. Please include your name, organization, and the agenda item to which your testimony relates. The board Chair will manage public testimony during the meeting. Testimony will be limited to 5 minutes.*
- If you do not receive confirmation of your testimony within one business day or by 8:30 a.m. on the date of the board meeting, please resubmit your testimony.

Thank you for working with us to ensure the health and safety of all participants.

Note: For information regarding re-appointments or board vacancies, please visit the governor's [website](#).

State of Oregon

**Board of Boiler Rules
Virtual meeting minutes
March 2, 2021**

- Members present:** Chris Baier, chair, steamfitter
Thomas Engstrom, boilermaker
Ryan Garvey, public member
Roger Hendrix, mfr/owner of boilers or pressure vessels
Patrick Lamb, practical steam operating engineer
Gregory Moyer, insurance inspector
Jeff Rotert, owner/user high pressure boiler
- Members absent:** Blake Alexander, boiler installation and repair
Vacant, mechanical engineer registered by the State of Oregon
- Staff:** Thomas Clark, boiler program chief, Statewide Operations
Tyler Glaze, policy analyst, Policy and Technical Services
Warren Jackson, manager, Statewide Operations
Debi Barnes-Woods, boards administrator/coordinator, PTS
Melissa Stiles, policy development coordinator, PTS
- Guests:** Kenneth Hill, retiring board member
Kathryn VanNatta, director of government and regulatory affairs,
Northwest Pulp and Paper Association
Rob Macdonald, engineering manager, Cascade Pacific Pulp
- I. Board business**
- A. Call to order**
Chair Chris Baier called the Board of Boiler Rules virtual meeting of March 2, 2021, to order at 9:30 a.m. The division is taking extra precautions for public meetings given concerns regarding Coronavirus/COVID-19 having virtual GoToMeetings streamed live through the division.
- B. Roll call**
Blake Alexander was excused from the virtual meeting. All other board members were connected by GoToMeeting.
- C. Approval of the agenda and order of business**
Chair Baier **RULED** the already [amended](#) agenda and order of business approved.
- D. Approval of the draft meeting minutes**
Chair Baier **RULED** the draft meeting minutes of Dec. 1, 2020, final.
- E. Date of the next regularly scheduled meeting: June 1, 2021.**

II. Public comment

Kathryn VanNatta, director of regulatory and government affairs, Northwest Pulp and Paper Association (NWPPA), was registered for oral testimony, but had connection issues to the virtual GoToMeeting. Her testimony pertained to a follow-up from the December 2020 board meeting on boiler inspection cycle extension rulemaking. The board moved on to the next Agenda Item. Miss VanNatta continued with connection issues for the entire meeting agenda.

III. Reports

Program update

Thomas Clark, boiler program chief, Statewide Services, said overdues are starting to somewhat stabilize, a change from the drastic jump caused from the pandemic. Inspectors are still unable to reach some of the out-of-area locations because of social distancing and other safety requirements, but February overdues are balancing out for the state at 17-percent, whereas the insurance industries holding at 23-percent.

Chief Clark introduced the newest inspector, Jon Everitt from North Clackamas County school District who managed 30 boilers, and comes with a background in HVAC. Chief Clark said that the division has welcomed one new inspector only to say good-bye to another. An inspector covering the southern area has moved out-of-state and is no longer working for the division.

Member Roger Hendrix made the board aware of an ANSI/ASSP Standard A10.35; a safety guideline for pressure testing of steel and copper piping systems that has been made available.

IV. Communications – None

V. Appeals - None

VI. Unfinished business - None

VII. New business

A. Board selection of committee membership for the review of the 2021 Oregon Boiler Pressure Vessel Specialty Code (OBPVSC)

This item was the late submission item added prior to the meeting date, but after the original posting date.

Names selected by the Board Chair:

- Chris Baier, Board Chair, weld program quality control manager PGE
- Roger Hendrix, Board Vice-chair, quality control manager TCM
- Andrew Eads, mechanical engineer PGE, subject matter expertise: piping systems, boilers, codes and standards
- Timothy Blomdahl, engineer, Radiant Realities

- Dwight Koller, boiler inspector, Liberty Mutual Insurance.

Board members had no disagreement with any of the names selected.

Motion by Roger Hendrix to approve the Chair's recommendation for the appointment of members for the 2021 OBPVSC.

Roll call vote:

Yea: Thomas Engstrom; Ryan Garvey; Patrick Lamb; Gregory Moyer; Jeff Rotert; Vice-chair Roger Hendrix, and Chair Chris Baier.

Nay: None.

Motion carried unanimously.

B. Board review and approve committee recommendations on new continuing education course and instructor application

Tyler Glaze, policy analyst, Policy and Technical Services, reviewed committee recommendations of all new instructor and course applications since the committee's last meeting.

Motion by Thomas Enstrom to approve committee recommendations for approval of courses and instructors.

Roll call vote:

Yea: Thomas Engstrom; Ryan Garvey; Patrick Lamb; Gregory Moyer; Jeff Rotert; Vice-chair Hendrix; and Chair Chris Baier.

Nay: None.

Motion carried unanimously.

IX. Announcements

X. Adjournment

Chair Chris Baier adjourned the meeting at 9:46 a.m.

Respectfully submitted by Debi Barnes-Woods, division boards administrator/coordinator.

State of Oregon

Board memo

Building Codes Division

June 1, 2021

To: Board of Boiler Rules

From: Tyler Glaze, policy advisor, Policy and Technical Services

Subject: 2021 Oregon Boiler and Pressure Vessel Specialty Code (OBPVSC) Review Committee recommendation regarding adoption of the 2021 National Boiler Inspection Code with amendments

Action requested:

The OBPVSC Review Committee requests the board review and approve the provisions of the 2021 Oregon Boiler and Pressure Vessel Specialty Code (OBPVSC) and recommend the Administrator proceed with rulemaking.

Background:

At the board's March 2, 2021, meeting, the Board of Boiler Rules established a code review committee, and recommended the 2021 National Boiler Inspection Code (NBIC) as the model code for Oregon.

The OBPVSC Review Committee completed an analysis of the 2021 NBIC changes, existing Oregon code amendments, statewide interpretations, and alternate method rulings. The committee met twice beginning April 14, 2021, and finalizing their recommendations to the board on May 5, 2021.

The matrix included in the board packet includes the full list of recommendations from the committee, along with any cost impacts noted by the committee. The board packet also includes a document with the committee's recommendations, along with supporting documentation.

Adopting the new code will require the Building Codes Division to engage in rulemaking. The division appoints the Board of Boiler Rules as a Rule Advisory Committee (RAC) under ORS 183.333. The division has taken steps to identify the rules it believes will be affected by the adoption of the new code, and it has prepared possible changes to the rule language. The division seeks the board's input on the draft rules included in the board packet.

In addition, the division seeks the board's recommendations on whether the draft rule changes and the adoption of the 2021 OBPVSC will have a fiscal impact. If so, the division seeks to understand the extent of that impact and whether the impact will be significant for small businesses.

Options:

- Provide input on rulemaking and any fiscal impact, approve the committee's recommendation and proposed draft rules, and forward to the Administrator for rulemaking and subsequent adoption, with the finding that the added cost, if any, is necessary to the health and safety of the occupants or the public or necessary to conserve scarce resources.
- Provide input on rulemaking and any fiscal impact, amend and approve the committee's recommendation and proposed draft rules, and forward to the Administrator for rulemaking and subsequent adoption, with the finding that the added cost, if any, is necessary to the health and safety of the occupants or the public or necessary to conserve scarce resources.
- Provide input on rulemaking and any fiscal impact and disapprove the proposed code provisions, which would continue use of the 2018 OBPVSC.

2021 Oregon Boiler and Pressure Vessel Specialty Code

New Oregon amendments

Blue/underline: Added language

Red/~~Strikethrough~~: Deleted language

Table 2-B
Effective October 1, 2021

Oregon Amendments to the 2021 edition of the National Board Inspection Code (NBIC) ANSI/NB 23 for the 2021 Oregon Boiler and Pressure Vessel Specialty Code.

For the purpose of identifying Oregon amendments to the NBIC – “OBPVSC” followed by a code section denotes an Oregon amendment to that section of code. Amendments may either be additions of code language developed by Oregon, or the deletion of NBIC code language. Language contained in the NBIC not listed in this table has not been amended by Oregon.

PART 1

OBPVSC 1.4.5	Boiler installation report. <u>Not adopted.</u>
OBPVSC 1.6.1	<p>Supports, foundations, and settings.</p> <p>Each boiler, potable water heater, thermal fluid heater and pressure vessel and the associated piping must be safely supported. Design of supports, foundations, and settings shall consider vibration (including seismic where necessary), movement (including thermal expansion and contraction), grounding/bonding to minimize electrolytic corrosion and loadings (including the weight of the fluid in the system during a pressure test) in accordance with jurisdictional requirement, manufactures recommendations, and/or other industry standards, as applicable.</p> <p><u>Note: These provisions apply in addition to provisions of the Oregon Electrical Specialty Code.</u></p>
OBPVSC 1.6.3	<p>Exit. <u>For exiting requirements, see Chapter 10 of the Oregon Structural Specialty Code.</u></p> <p>Two means of exit shall be provided for boiler rooms exceeding 500 sq. ft. (46.5 sq. m) floor area and containing one or more boilers having a combined fuel capacity of 1,000,000 Btu/hr (293 kW) or more (or equivalent electrical heat input). Each elevation shall be provided with at least two means of exit, each to be remotely located from the other. A platform at the top of a single boiler is not considered an elevation.</p>
OBPVSC 1.6.4	Ladders and Runways. <u>See Oregon Administrative Rules, Chapter 437, Division 2.</u>
OBPVSC 1.6.6	<p>Ventilation and Combustion Air.</p> <p><u>Note: These provisions apply in addition to provisions of the Oregon Mechanical Specialty Code.</u></p>
OBPVSC 1.6.9	<p>Carbon Monoxide (CO) Detector/Alarm. <u>Not adopted.</u></p> <p>The owner or user shall install a carbon monoxide (CO) detector/alarm in equipment rooms where fuel fired boilers and/or fuel fire pressure vessels are location in accordance with the authority having jurisdiction.</p>
OBPVSC 2.3.3 (a)	<p>Clearances.</p> <p>a) Boiler installations shall allow for normal operation, maintenance, and inspections. There shall be at least 36 in. (915 mm) of clearance on each side of the boiler to enable access for maintenance and/or inspection activities. Boilers operated in battery shall not be installed closer than 48 inches from each other, <u>except boilers that operate at up to 2,000,000 btu may be installed according to manufacturer’s instructions.</u></p>
OBPVSC 2.10.6	Boiler Installation Report. <u>Not adopted.</u>
OBPVSC 3.3.4(a)	<p>Clearances. Heating boilers shall have a minimum distance of at least 36 in. (914 mm) between the top of the boiler and any overhead structure and at least 36 in. (914mm) between all sides of the heating boiler and adjacent walls, structures or other equipment; <u>except that heating boilers exceeding 2,000,000 btu and operated in battery shall be installed a minimum of 48 inches from each other, and heating boilers that operate at or below 2,000,000 btu may be installed according to manufacturer’s instructions.</u> Heating boilers having manholes shall have at least 84 in. (2135 mm) of clearance between the manhole opening and any wall, ceiling, piping, or other equipment that may prevent a person from entering the heating boiler. Alternative clearances in accordance with the manufacturer’s recommendations are subject to acceptance by the Jurisdiction.</p>

2021 Oregon Boiler and Pressure Vessel Specialty Code

OBPVSC 3.5.3.1 Rescind	Steam Heating, Hot Water Heating, and Hot Water Supply Boilers. b) A disconnecting means capable of being locked in open position shall be installed at an accessible location at the boiler so that the boiler can be disconnected from all sources of potential energy.
OBPVSC 3.5.3.2 Rescind	Potable Water Heaters. e) A disconnecting means capable of being locked in open position shall be installed at an accessible location at the boiler so that the boiler can be disconnected from all sources of potential energy.
OBPVSC 3.7.1(b)	Oil Heaters. b) <u>Not adopted.</u>
<u>OBPVSC 3.10.3</u>	Boiler installation report. <u>Not adopted.</u>
OBPVSC 4.3.2(a)	Clearances. a) All pressure vessel installations must allow sufficient clearance for normal operation, maintenance, and inspection (internal and external). <u>When making an installation or adding insulation, the name plate and safety relief valve data plates shall be available for review.</u>
OBPVSC 4.3.3	Piping. Piping loads on the vessel nozzles shall be considered. Piping loads include weight of the pipe, weight of the contents of the pipe, expansion of the pipe from temperature and pressure changes (wind and seismic loads). The effects of piping vibration on the vessel nozzles shall also be considered. <u>Installation shall be in accordance with the Oregon Boiler and Pressure Vessel Specialty Code, which includes the ASME B 31 Piping Codes.</u>
OBPVSC 4.6(b) Rescind	Testing and Acceptance. Not adopted.
Supplement 3	Installation of Liquid Carbon Dioxide Storage Vessels. <u>Not adopted.</u>
PART 2	
OBPVSC 1.5.2.1	Inspection Planning. <u>Note: State of Oregon inspection plan can be found in OAR Chapter 918, Division 225. OAR 918-225-0570 includes inspection schedules.</u> <u>Note: Minimum inspection frequencies are established in OAR 918-225-0570.</u>
OBPVSC 2.3.6.6	Transport Tanks. <u>Not adopted.</u>
<u>OBPVSC 4.2.1</u>	4.2.1 Visual (c) Remote Visual Inspection is an acceptable method of visual examination if the process is agreed upon by the owner and acceptable to the Inspector and Jurisdiction, if required. <u>(Items 1-6 are not adopted)</u> (7) All equipment used must produce results acceptable to the Inspector.
<u>OBPVSC Supplement 6</u>	Continued Service and Inspection of DOT Transport Tanks. <u>Not adopted.</u>
OBPVSC Supplement 7	Inspection of Pressure Vessels in Liquefied Petroleum Gas Service. <u>Not adopted.</u>
<u>OBPVSC Supplement 12</u>	Inspection of Liquid Carbon Dioxide Storage Vessels. <u>Not adopted.</u>

2021 Oregon Boiler and Pressure Vessel Specialty Code

OBPVSC 5.3.2
Form NBIC-136
Rescind

Replacement of Stamped Data Form, NB-136
The 2017 edition of this form is not adopted by the State of Oregon.
Use the 2013 edition of the form, available at www.oregon.gov/bed.

DRAFT

2021 Oregon Boiler and Pressure Vessel Specialty Code (OBPVSC)

Code adoption matrix

The following is a summary matrix showing the code review committee’s recommendations to the Board of Boiler Rules for the 2021 edition of the Oregon Boiler and Pressure Vessel Specialty Code (OBPVSC).

Where the committee has recommended a new Oregon amendment or a modification, the formatting denotes the following:

Blue/underline: Added language

~~Red/Strikethrough~~: Deleted language

Major changes to the 2019 NBIC and 2021 NBIC

No.	Source of change	Section	Subject and summary	Committee recommendation
NBIC Part 1 – Installation				
0	21 NBIC	1.6.1	<p>Adds a requirement under the supports foundations and settings section for grounding or bonding to minimize electric electrolytic corrosion.</p> <ul style="list-style-type: none"> Committee recommendation: Adopt a new amendment pointing to the Oregon Electrical Specialty Code (OESC) for additional provisions. <p>The recommended amendment language (the new NBIC language appears in red):</p> <p>1.6.1 Supports, foundations, and settings.</p> <p>Each boiler, potable water heater, thermal fluid heater and pressure vessel and the associated piping must be safely supported. Design of supports, foundations, and settings shall consider vibration (including seismic where necessary), movement (including thermal expansion and contraction), grounding/bonding to minimize electrolytic corrosion and loadings (including the weight of the fluid in the system during a pressure test) in accordance with jurisdictional requirement, manufactures recommendations, and/or other industry standards, as applicable.</p> <p><u>Note: These provisions apply in addition to provisions of the Oregon Electrical Specialty Code.</u></p>	Approve as modified by adding a pointer to OESC as the authority.
1	19 NBIC	1.6.9	<p>New requirements for the installation of carbon monoxide detectors for rooms containing fuel fired boilers and pressure vessels to be installed in accordance with the authority having jurisdiction.</p> <ul style="list-style-type: none"> Carbon monoxide detectors are under the authority of the Oregon State Fire Marshal. Committee recommendation: New amendment excluding this section from the NBIC. <p>The recommended amendment language:</p> <p>1.6.9 Carbon Monoxide (CO) Detector/Alarm. <u>Not adopted.</u></p> <p>The owner or user shall install a carbon monoxide (CO) detector/alarm in equipment rooms where fuel fired boilers and/or fuel fire pressure vessels are location in accordance with the authority having jurisdiction.</p>	Disapprove

2021 Oregon Boiler and Pressure Vessel Specialty Code (OBPVSC) Code adoption matrix

No.	Source of change	Section	Subject and summary	Committee recommendation
2	21 NBIC	1.6.10	Revisions to 1.6.10 to add additional details/specifications for Testing and Final Acceptance. (Draft – Page 3)	Approve
3	21 NBIC	2.9.1	New requirements to remove covers, caps, plugs, wires, or restraining devices used for shipping/transporting pressure relief valves prior to a valve’s installation. Also included in Part 4. (Draft – Page 8)	Approve
4	21 NBIC	3.9.1.5	New temperature rating requirements for discharge piping and fittings. (Draft – Page 13)	Approve
5	21 NBIC	S3.4	Revised CO ² gas detection system requirements for Liquid Carbon Dioxide storage vessels. (Draft – Page 17) <ul style="list-style-type: none"> This supplement is currently not adopted. 	Disapprove Retain amendment
6	21 NBIC	S5.7	Updated installation requirements for Thermal Fluid Heaters. (Draft – Page 18)	Approve
7	19 NBIC	S7	A new Supplement 7, Installation of Graphite Pressure Equipment.	Approve
8	21 NBIC	S8	New Supplement 8 for Installation of Pressure Vessels for Human Occupancy (PVHOs). (Draft – Page 21) <ul style="list-style-type: none"> Adopting this new supplement also adopts a new construction standard: ASME PVHO-1 	Approve
9	21 NBIC	S9	New Supplement 9 for High-Temperature Water Boilers. (Draft – Page 25)	Approve
NBIC Part 2 – Inspection				
10	21 NBIC	1.4.1 4.2.1	Adds allowance for remote visual inspections and a pointer to specific requirements in 4.2.1(c). (Draft – Page 27) <ul style="list-style-type: none"> Committee recommendation: New amendment excluding items 1-6 from Section 4.2.1(c) because the requirements could exclude current inspection allowances. <p>The recommended amendment language:</p> <p>1.4.1 Personal safety requirements for entering confined spaces (c) Remote visual inspection is an acceptable alternative to confined space entry provided the requirements of 4.2.1 (c) are met and where allowed by the jurisdiction.</p> <p>4.2.1 Visual (c) Remote Visual Inspection is an acceptable method of visual examination if the process is agreed upon by the owner and acceptable to the Inspector and Jurisdiction, if required.</p> <p>(Items 1-6 are not adopted.)</p> <p>(7) All equipment used must produce results acceptable to the Inspector.</p>	1.4.1: Approve 4.2.1 Approve as modified by striking items 1-6
11	19-21 NBIC	2.3.6.8	Updated inspection requirements and guidance for PVHOs. (Draft – Page 29)	Approve

2021 Oregon Boiler and Pressure Vessel Specialty Code (OBPVSC) Code adoption matrix

No.	Source of change	Section	Subject and summary	Committee recommendation
12	21 NBIC	2.5.4	New inspection requirements to ensure all shipping caps, plugs, covers, wires, and or restraining devices were removed during the installation process. These requirements are also included in Part 4. (Draft – Page 33)	Approve
13	19 NBIC	5.2	New instructions for the replacement of stampings and nameplates, includes an update to Form NB-136.	Approve
14	19 NBIC	S2.14.16	A new subsection for Supplement 2 on the firing of historical boilers with liquid or gaseous fuels.	Approve
15	21 NBIC	S2.7.3.2	New requirements to allow for longer NDE cycles for Historical Boilers. (Draft – Page 39)	Approve
16	21 NBIC	S2.10.3.1	New MAWP requirements for Return Flue Boilers. (Draft – Page 40)	Approve
17	21 NBIC	S10	Several updates and revisions to Supplement 10. (Draft – Page 43)	Approve
18	21 NBIC	S12	Revised carbon dioxide gas detection system requirements for Liquid Carbon Dioxide storage vessels. <ul style="list-style-type: none"> • Committee recommendation: New amendment not adopting this supplement. 	Disapprove
NBIC Part 3 – Repairs and Alterations				
19	19 NBIC	1.6	New requirements and guidance for the “NR” Program.	Approve
20	21 NBIC	1.6.3	Revised language to clarify Quality Assurance Program requirements. (Draft – Page 55)	Approve
21	19 NBIC	2.1, 2.2, 2.5	New requirements and guidance for brazing and fusing.	Approve
23	21 NBIC	2.3	Several revisions to Table 2.3 to only show the most recent edition of an SWPS. New language is included in Section 2.3 to allow the use of previous versions of the SWPSs listed in Table 2.3. (Draft – Page 62)	Approve
22	21 NBIC	2.5.3.7	New section detailing requirements for Welding Method 7. (Draft – Page 62)	Approve
24	21 NBIC	3.3.2	New language specifying that routine repairs are not permitted for ASME Section VIII, Div. 2 or Div. 3 vessels. (Draft – Page 76)	Approve
25	19 NBIC	3.3.3 u	New requirements and guidance for the repair of plate heat exchangers.	Approve
26	21 NBIC	3.3.4.6	New requirements for flush patches in stayed and unstayed areas of tubesheets. (Draft – Page 77)	Approve
27	21 NBIC	3.3.6	New Section 3.3.6 for Pressure Vessel Impact Testing. (Draft – Page 80)	Approve
28	21 NBIC	3.4.5.1	New language that allows for the engineer review and certification process for alteration plans to be waived. This change applies to ASME Section VIII, Div. 2, Class 1 vessels. (Draft – Page 81)	Approve
29	19 NBIC	5.1, 5.2, 5.12	New instructions and guidelines for the R-1, R-2, R-3, and R-4 repair forms. New requirements allowing for R-Certificate Holders to maintain their R-form logs using only the National Board EDT system.	Approve

2021 Oregon Boiler and Pressure Vessel Specialty Code (OBPVSC) Code adoption matrix

No.	Source of change	Section	Subject and summary	Committee recommendation
30	21 NBIC	S4.19	New section S4.19 for the Repair of High-Pressure Filament Wound Vessels. (Draft – Page 113)	Approve
31	19 NBIC	S1.2.9.6	New requirements and guidelines for the installation of boiler flues.	Approve
32	19 NBIC	S3.5.4	New requirements and guidelines for testing tube plug repairs in graphite pressure vessels.	Approve
NBIC Part 4 – Pressure Relief Devices				
33	21 NBIC	S3	New Supplement for Pressure Relief and Pilot Valve Storage and Shelf Life. (Draft – Page 172)	Approve
34	21 NBIC	2.2.2	New pressure relief device requirements for boilers up to 4,000 lb/hr. (Draft – Page 149)	Approve
35	21 NBIC	2.3.6	New installation requirements for Thermal Fluid Heaters. (Draft – Page 151)	Approve
36	19 NBIC	2.4.2	Updated requirements and guidance for pressure relief valves for steam heating boilers.	Approve
37	21 NBIC	2.4.4.7	New temperature rating requirements for discharge piping and fittings. (Draft – Page 156)	Approve
38	19 NBIC	3.3	New accreditation requirements for the “T/O” Testing Only program. <ul style="list-style-type: none"> • Approving these changes requires a change in rule to include. 	Approve
39	21 NBIC	4.6.2	New language requiring the manufacturer’s correction factor used in pressure testing be recorded on the valve repair document in paragraph 4.8.5.4 i.	Approve
40	19 NBIC	S6	New requirements and guidance for repairs of nuclear safety related pressure relief devices.	Approve
41	19 NBIC	S7	A new Supplement 7, Recommended Procedures for Test Only of Pressure Relief Valves.	Approve

2021 Oregon Boiler and Pressure Vessel Specialty Code (OBPVSC) Code adoption matrix

Other adopted standards and codebooks

1	2018 ASME CSD-1, Controls and Safety Devices for Automatically Fire Boilers	Approve adoption
2	2019 NFPA, 85 Boiler and Combustion Systems Hazard Code	Approve adoption
3	2021 ASME Boiler and Pressure Vessel Code: Section I; Section II, Parts A, B, C, and D; Section IV; Section V; Section VIII, Division 1, 2, and 3; Section IX; and Section X only	Approve adoption
4	2020 ANSI/ASME B31.1, Power Piping	Approve adoption
5	2020 ANSI/ASME B31.3, Process Piping	Approve adoption
6	2019 ANSI/ASME B31.5, Refrigeration Piping	Approve adoption
7	2020 ANSI/ASME B31.9, Building Service Piping	Approve adoption
8	2016 ASME PVHO-1, Safety Standard for Pressure Vessels for Human Occupancy (Construction standard)	Approve adoption

2021 Oregon Boiler and Pressure Vessel Specialty Code (OBPVSC)

Code adoption matrix

Existing Oregon amendments to the 2017 NBIC

*Bold notes in the committee recommendations column denote changes to the 2018 OBPVSC Table 2-b amendments.

No.	Source of change	Section	Subject and summary	Committee recommendation
NBIC Part 1 amendments				
0	OR A	1.4.5	Oregon does not adopt this section. – See Item 5 below.	New amendment
1	OR A	1.6.3	Exit. Oregon amended this section by replacing it with a pointer to Chapter 10 of the Oregon Structural Specialty Code for exiting requirements.	Retain amendment
2	OR A	1.6.4	Ladders and Runways. Oregon amended this section to point to OAR 437 Division 2. Referring to the applicable OSHA standards.	Retain amendment
3	OR A	1.6.6	Ventilation and Combustion Air. Oregon amended this section to point to the Oregon Mechanical Specialty Code for additional ventilation and combustion air requirements.	Retain amendment
4	OR A	2.3.3(a)	Clearances. Oregon amended this section to allow boilers that operate up to 2,000,000 BTU be installed per manufacturer’s instructions.	Retain amendment
5	OR A	2.10.6	Boiler Installation Report. Oregon does not adopt this section. <ul style="list-style-type: none"> Committee recommendation: Retain the amendment and adopted new amendments doing the same in Sections 1.4.5 and 3.10.3. 	Retain amendment
0	OR A	3.10.3	Oregon does not adopt this section. – See Item 5 below.	New amendment
6	OR A	3.3.4(a)	Clearances. Oregon amended this section to require that heating boilers exceeding 2,000,000 btu and operated in battery be installed a minimum of 48 inches from each other, and to allow heating boilers that operate at or below 2,000,000 btu to be installed according to the manufacturer’s instructions.	Retain amendment
7	OR A	3.5.3.1	Steam Heating, Hot Water Heating, and Hot Water Supply Boilers. Oregon amended this section to specify that the boiler can be disconnected from all sources of potential <u>energy</u> .	Rescind amendment
8	OR A	3.5.3.2	Potable Water Heaters. Oregon amended this section to specify that the boiler can be disconnected from all sources of potential <u>energy</u> .	Rescind amendment
9	OR A	3.7.1(b)	Oil Heaters. Oregon amends this section by not adopting paragraph (b), which excludes the issue of external-type heaters. <ul style="list-style-type: none"> Committee recommendation: Rescind the amendment because the NBIC language no longer poses concerns. 	Rescind amendment
10	OR A	4.3.2(a)	Clearances. Oregon amends this section by adding language to require accessibility for identification of nameplate data plates and safety release valve data plates.	Retain amendment

2021 Oregon Boiler and Pressure Vessel Specialty Code (OBPVSC) Code adoption matrix

No.	Source of change	Section	Subject and summary	Committee recommendation
11	OR A	4.3.3	<p>Piping. Oregon amends this section by adding lanugage to clarify that piping be installed in accordance with the Oregon Boiler and Pressure Vessel Specialty Code (OBPVSC), specifically the adopted ASME B31 standards.</p> <ul style="list-style-type: none"> Committee recommendation: Retain the amendment as modified by simplifying the requirement to just say the OBPVSC. 	Retain as modified
12	OR A	4.6(b)	<p>Testing and Acceptance. (b) Oregon does not adopt paragraph (b).</p> <ul style="list-style-type: none"> This amendment was adopted in 2008 and the section has been moved to Section 1.6.10 and rewritten. Committee recommendation: Rescind the amendment because it no longer presents the concerns that prompted the amendment. 	Rescind amendment
13	OR A	Supp3	Installation of Liquid Carbon Dioxide Storage Vessels. Oregon does not adopt Supplement 3.	Retain amendment
NBIC Part 2 amendments				
14	OR A	1.5.2.1	<p>Inspection Planning. Oregon amends this section by adding a note that points to OAR 918-225-0570 for inspection plan requirements.</p> <ul style="list-style-type: none"> Committee recommendation: Retain the amendment as modified to align with the OAR language that minimum inspection frequencies are established in OAR 918-225-0570. <p>New amendment language: 1.5.2.1 Inspection Planning. Note: Minimum inspection frequencies are established in OAR 918-225-0570.</p>	Retain as modified for clarification
15	OR A	2.3.6.6	Transport Tanks. Oregon does not adopt this section.	Retain amendment
15.1	OR A	Supp 6	<p>Continued Service and Inspection of DOT Transport Tanks.</p> <ul style="list-style-type: none"> Committee recommendation: New amendment not adopting this supplement to align with the amendment to 2.3.6.6. 	New amendment
16	OR A	Supp7	Inspection of Pressure Vessels in Liquefied Petroleum Gas Service. Oregon does not adopt Supplement 7, LP gas is under the authority of OSFM.	Retain amendment
17	OR A	5.3.2	<p>Form NBIC-136 Replacement of Stamped Data Form, NB-136. Oregon amends this section to require the use of the 2013 NB-136 instead of the 2017 NB-136.</p> <ul style="list-style-type: none"> Committee recommendation: This amendment is no longer necessary, the changes to the NBIC form have fixed the issue. 	Rescind amendment

Boiler Adoption Draft Rules

June 1, 2021

918-225-0350

Exemptions for Hot Water Storage Tanks

Hot water supply storage tanks heated by steam or any indirect means not exceeding any of the following are exempt from ORS 480.510 to 480.665:

- (1) A heat input of 200,000 Btu/hr;
- (2) A water temperature of 210°F;
- (3) A nominal water containing capacity of 120 gallons; or
- (4) A maximum working pressure of 150 pounds per square inch gauge pressure.

Stat. Auth.: ORS 480.560

Stats. Implemented: ORS 480.560

918-225-0430

Adopted Oregon Boiler and Pressure Vessel Specialty Code

(1) The Oregon Boiler and Pressure Vessel Specialty Code is adopted and amended by reference. Any matters included in the referenced publications below that are in conflict with Oregon Revised Statutes or Oregon Administrative Rules are superseded by the applicable statute or rule. All remaining parts or application of the code or standard remain in effect. Items which are superseded by applicable statute or rule include but are not limited to: licensing or certification requirements; inspection schedules and requirements; quality assurance or quality control procedures or requirements; structures or equipment maintenance requirements; matters covered by federal or state law; and matters that conflict with other specialty codes or publications adopted by the department. Any matters included in the referenced publications below which are beyond the scope of the State Building Code as defined in ORS Chapter 455 are not adopted or enforced as part of the Oregon Boiler and Pressure Vessel Specialty Code.

(2) Effective October 1, ~~2018~~ **2021**, the ~~2018~~ **2021** Oregon Boiler and Pressure Vessel Specialty Code consists of the following minimum safety standards for boilers, pressure vessels, pressure piping, parts, items, and repair and alteration procedures:

(a) ORS 480.510 to 480.670 and OAR chapter 918, division 225;

(b) The 2021 Edition of the National Board Inspection Code ANSI/NB 23, including Parts 1, 2, 3 and 4, as amended by the division in OAR 918-225-0435 Table 2-B;

~~(bc) The Boiler and Pressure Vessel Code of The~~ **The 2021 edition of the** American Society of Mechanical Engineers (ASME), **Boiler and Pressure Vessel Code** ~~2015 Edition as published,~~ including Section I; Section II, Parts A, B, C, and D; Section IV; Section V; Section VIII, Division 1, 2, and 3; Section IX; and Section X only;

~~(ed)~~ The ~~2016~~ **2020** edition of the ASME B31.1 Power Piping Code;

~~(de)~~ The ~~2016~~ **2020** edition of the ASME B31.3 Process Piping Code;

~~(ef)~~ The ~~2016~~ **2019** edition of the ASME B31.5 Refrigeration Piping Code;

~~(fg)~~ The ~~2017~~ **2020** edition of the ASME B31.9 Building Service Piping Code;

~~(g) The 2017 edition of the National Board Inspection Code ANSI/NB 23, including Parts 1, 2, and 3, as amended by the division in OAR 918-225-0435 Table 2-B;~~

~~(h) The 2015 2019 edition of NFPA 85, Boiler and Combustion Systems Hazards Code; and,~~

~~(i) The 2015 2018 edition of ASME, CSD-1, Controls and Safety Devices for Automatically Fired Boilers-; and~~

(k) The 2019 edition of ASME PVHO-1, Safety Standard for Pressure Vessels for Human Occupancy.

(3) The standards and requirements applicable to boiler and pressure vessel business and trade licenses, as well as inspector certifications, issued by the Building Codes Division are established in ORS Chapters 455 and 480, and OAR chapter 918, divisions 30, 90, and 225.

[Publications: Publications referenced are available from the agency.]

Stat. Auth.: ORS 455.020, 480.545, 480.550

Stats. Implemented: ORS 480.545, 480.550, 480.560

918-225-0435

Amendments to the Oregon Boiler and Pressure Vessel Specialty Code

~~(1) The Oregon Boiler and Pressure Vessel Specialty Code is amended pursuant to OAR chapter 918, division 8. Amendments adopted for inclusion into the Oregon Boiler and Pressure Vessel Specialty Code are placed in this rule.~~

~~(2) Effective October 1, 2018, the 2017 Edition of the National Board Inspection Code ANSI/NB 23, parts 1 and 2 are printed in their entirety in Table 2-B.~~

[Publications: Publications referenced are available from the agency.]

[NOTE: Table referenced is not included in rule text.]

Stat. Auth.: ORS 455.020, 480.545, 480.550

Stats. Implemented: ORS 480.545, 480.550

918-225-0745

Contractor Registration

(1) All persons in the business of assembling, ~~or repairing or adjusting safety or safety~~ **pressure** relief valves shall adopt a quality control system under the “VR” Symbol Stamp of the National Board.

(2) All persons in the business of testing and making only minor adjustments to pressure relief valves shall adopt a quality control system under the “T/O” Symbol Stamp of the National Board.

~~(3) An owner-user may use its own employees to repair or adjust safety or~~ **pressure** relief valves for its own use, provided it adopts a quality control system under the “VR” Symbol Stamp of the National Board.

(4) An owner-user may use its own employees to test and make minor adjustments only to

pressure relief valves for its own use, provided it adopts a quality control system under the “T/O” Symbol Stamp of the National Board.

Stat. Auth.: ORS 455.020, 480.545

Stats. Implemented: ORS 480.545

918-225-0240

Definitions

As used in OAR 918, division 225, unless the context requires otherwise:

(1) "Agricultural Purposes" means:

(a) Sowing, tending, and harvesting of products of the soil grown under natural conditions;

(b) Raising of poultry or fowl;

(c) Pasturage or raising of livestock or other animals; or

(d) Original processing of the farm product, but not the processing of the product of a different operator, or reprocessing work as freezing, canning, or packing if performed substantially for commercial purposes.

(2) "Available" to determine inspection fees at cost, means the vessels must be due for inspection in the year the notification is applicable, and must all be ready for inspection at the time designated by the inspector.

(3) "Board" is defined in ORS 480.515(2).

(4) "Boiler Room" means any enclosed room or designated space within a building, intended by design or by usage to contain a boiler that is connected and available for use. A boiler located in an area not meeting the definition of "boiler room" under OAR 918-225-0465 shall apply to any space within 20 feet of any burner.

(5) "Building Service Piping" means piping systems operating at or less than 150 psig steam; and water at or less than 160 psig and 250o F as described in ANSI/ASME Standard B31.9.

(6) "Chief Inspector" means the inspector appointed by the director pursuant to ORS 480.565(1).

(7) "Farm" means an area of land:

(a) Located in a rural district;

(b) Of sufficient size to generally be considered as a farm in its locale; and

(c) Devoted primarily to tillage and raising crops under natural conditions, or to raising animals, fowl, or poultry.

(8) "Emergency" as used in ORS 480.630(6) means an unplanned circumstance requiring immediate repair, installation, replacement, or shutdown because of risk to health, life, or property.

(9) "Hobby" or "Demonstration" means recreational or other noncommercial use.

(10) "Immediate Safety Hazard" means hazardous conditions exist requiring immediate correction to a boiler, pressure vessel, or pressure piping system to preserve the safety of people or property.

(11) "Installation" means, but is not limited to, permanently placing in its final operating position, assembling, or connecting a boiler, pressure vessel, boiler controls, or related appurtenances for service or use. Installation includes, but is not limited to, connecting water, steam, air, refrigerant, fuel source, or other product piping to or from a boiler or pressure vessel. Merely transporting, moving or temporarily positioning a boiler or pressure vessel is not an installation. For the purposes of these rules, an electrical power supply connection to a boiler or pressure vessel is not an installation.

(12) "National Board" means the National Board of Boiler and Pressure Vessel Inspectors.

(13) "Operating" means any vessel connected and ready for service.

(14) "Person" means any individual, partnership, corporation, association, governmental subdivision, or public or private organization of any character.

(15) "Place of Public Assembly" means a building used or held for use, in whole or in part, for worship; health treatment; rest, recuperation, or retirement living; child care nurseries or institutions; public meetings; education; instruction; entertainment; eating; recreation; or awaiting transportation.

(16) "Pressure Piping" means piping systems and components under the scope of ASME B31.1, B31.3, B31.5, and B31.9.

(17) "Pressure Relief Valve" means ~~a valve activated by inlet static pressure which opens in proportion to the increase in pressure over the opening pressure range~~ **pressure relief device designed to open and to reclose after pressure has lowered below the set point.** Only ASME approved valves are allowed under the boiler rules.

(18) "Pressure Vessel" is defined in ORS 480.515(12).

(19) "Process Piping Inspector" means the owner's inspector, for the inspection of ASME B31.3 Process Piping, Category "M" fluid service only.

(20) "Psig" means pounds per square inch gauge pressure.

(21) "Related Appurtenance" is defined in ORS 480.515(13).

(22) "Repair" means:

(a) Welded or Riveted Repairs, meaning welding or riveting within or on the pressure boundaries of a boiler, pressure vessel or related appurtenance to restore the vessel or appurtenance to a safe and satisfactory operating condition, or any work that might impair the integrity of the pressure retaining item;

(b) Non-welded Major Repairs, meaning work performed on a boiler or pressure vessel and its related appurtenances by non-welded means to restore the vessel or appurtenance to a safe and satisfactory operating condition, including but not limited to the replacement of burners, tubes and cast iron sections; and

(c) Minor Repairs, meaning the non-welded replacement of safety devices, including but not limited to, low water cut-offs, pressure relief valves, safety valves, safety switches, rupture discs, high pressure or temperature limits, low pressure or temperature limits, fuel train components, flame detectors, flame safeguards, heat exchanger elements, and burner components.

(23) "Safety Valve" means a valve activated by inlet static pressure and characterized by rapid opening or pop action. Only ASME approved valves are allowed under the boiler rules.

(24) "Same Location," to determine inspection fees at cost, means that all vessels are within 2,000 feet of one another.

(25) "Service of Process" means deposit in the U.S. mail a copy of a notice addressed to the respondent at the respondent's last known address.

(26) "Single Family Dwelling" means a one-family dwelling structure.

(27) "Structure" means a building or shed with a roof and enclosed on the sides 75 percent or more.

(28) "Traction Boiler" means a boiler constructed before January 1, 1961, designed to operate or pull equipment, or to convert steam power into a flywheel energy driving apparatus such as a thresher, road roller, or grinding equipment.

(29) "Vessel That is Considered Subject to Corrosion or Erosion" means the vessel contains or is intended to contain contents having a corrosive or erosive effect on any portion of the vessel. The use of glass linings leaves a vessel subject to corrosion unless all portions of the vessel are impervious to the corrosive or erosive effects of the contents.

Stat. Auth.: ORS 455.030 & 480.545

Stats. Implemented: ORS 480.525, 480.545, 480.550, 480.560 & 480.565

State of Oregon

Board memo

Building Codes Division

June 1, 2021

To: Board of Boiler Rules

From: Tyler Glaze, policy analyst, Policy and Technical Services

Subject: Continuing Education Applications

Action requested:

Board of Boiler Rules review and approve the continuing education committee's recommendations for continuing education courses and instructors.

Background:

Under ORS 455.117, the board may adopt rules to administer the licenses issued under ORS Chapter 480. Those rules may include training and continuing education requirements to maintain a license.

Under this authority, the board has established standards for the approval of continuing education courses and instructors, and a Boiler Continuing Education Review Committee. The committee is responsible for reviewing course and instructor applications to ensure compliance with the standards established by the board, and making recommendations for the approval and denial of course and instructor applications to the board. The committee completed review of continuing education course and instructor applications on May 6, 2021. The committee reviewed 9 applications from 4 organizations:

- 4 courses were recommended for approval.
- 5 instructors were recommended for approval.

In addition to the Oregon Rule and Law criteria, the committee is using the following when reviewing applications:

- For correspondence courses – provider must submit complete course.
- For online courses – provider must submit a log-on or screen shots of course content.
- OSHA courses are eligible for a maximum of eight hours code-related credit.
- First Aid, CPR & AED courses are eligible for a maximum of eight hours code-related credit.

Options:

- Approve the committee's recommendations for approval or denial of courses or instructors.
- Amend and approve the committee's recommendations for approval or denial of courses or instructors.
- Disapprove the committee's recommendations for approval or denial of courses or instructors.

Board of Boiler Rules
Committee on Continuing Education Course and Instructor Review
June 1, 2021

Courses

	Applicant	Course Name	Committee Recommendation
1	UA Local 290	Electrical Safety and Maintenance 8 hours CR	Approve for 2018 Code Cycle
2	Bridgetown Training Solutions	Basic Plus – CPR/AED/First Aid 4 hours CR (CPR/AED/First Aid)	Approve for 2018 Code Cycle
3	Just In Time Training, LLC	Heartsaver First Aid/CPR/AED 6 hours CR (CPR/AED/First Aid)	Approve for 2018 Code Cycle
4	MacDonald-Miller	AHA Heartsaver 1 st Aid/CPR 4 hours CR (CPR/AED/First Aid)	Approve for 2018 Code Cycle

Instructors

	Applicant	Committee Recommendation
1	Ronald E. Chapman UA Local 290	Approve for 2018 Code Cycle
2	David G. Hiebert UA Local 290	Approve for 2018 Code Cycle
3	Shawn Deuel Bridgetown Training Solutions	Approve for 2018 Code Cycle
4	Jennifer Walton Just In Time Training, LLC	Approve for 2018 Code Cycle
5	Steel Just In Time Training, LLC	Approve for 2018 Code Cycle



P: 800.447.3177



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1450 Westec Dr., Eugene, OR. 97402

**Agenda
Item
VII.C.**

VIA EMAIL- DELIVERY & READ RECEIPT REQUESTED

April 1, 2021

Mr. Thomas Clark

Boiler Program Chief

The Board of Boiler Rules

Department of Consumer and Business Services

Building Codes Division

1535 Edgewater Street NW

Salem, OR 97304

Dear Mr. Clark,

The purpose of this letter is to request, pursuant to 918-035-0040(2), that the Board of Boiler Rules ("Board") recognize the [Health and Safety Institute](#) ("HSI") as a national organization, thus removing the requirement to submit specific courses for approval to the Building Codes Division ("Division"). We request that this recognition be put into place with the approval of our newly submitted courses.

I. Reasons for Requesting Amendment

- a. HSI is comprised of four emergency care training program brands: the American Safety and Health Institute ("ASHI"), MEDIC First Aid®, EMS Safety Services, and 24-7 EMS & Fire. These four brands of training programs include a range of courses covering first aid and CPR training for the community and workplace as well as both basic and advanced life support training and continuing education for healthcare providers.

- b. The American Heart Association[®], Inc. ("AHA"), the American National Red Cross ("ARC") and HSI are the largest providers of CPR training in the United States.^{1,2}
- i. The training business units of the HSI, AHA and ARC are similar. Each corporation develops and markets commercially available, proprietary training programs, products, and services to their approved Training Centers, either directly or via distributors.
 - ii. The business structures of the approved Training Centers include sole proprietorships, partnerships, corporations, LLCs, non-profits, as well as both large and small government agencies.
 - iii. Instructors are authorized to certify course participants. Certification requires instructor evaluation of hands-on skills to verify skill competency.
- c. Like the AHA and ARC, HSI is nationally accredited by the [Commission on Accreditation of Pre-Hospital Continuing Education](#) ("CAPCE"). CAPCE is the national accrediting body for Emergency Medical Services continuing education courses and course providers. CAPCE Organizational Accreditation demonstrates that HSI has voluntarily submitted to an objective assessment of its ability to meet established standards for educational planning, implementation, and evaluation and that it has met or exceeded those criteria.
- d. Also like the AHA and ARC, HSI is a nationally approved continuing dental education provider by the [Academy of General Dentistry](#), ("AGD"), Program Approval for Continuing Education ("PACE"). AGD PACE approval is based on 13 rigorous standards for identifying high-quality educational organizations.

¹Anderson ML, et al. [Rates of cardiopulmonary resuscitation training in the United States](#). *JAMA Intern Med*. 2014 Feb 1;174(2):194-201 doi: 10.1001/jamainternmed.2013.11320. [Retrieved 09/15/2020]

²Virani S, et al. Heart Disease and Stroke Statistics- 2020 Update. A Report from the American Heart Association *Circulation*. 020; 141:00–00. Clinical Statements and Guidelines. Awareness and Treatment, pg. e318 (**Large file**). Available: <https://www.ahajournals.org/doi/pdf/10.1161/CIR.0000000000000757> [Retrieved 09/15/2020]

- e. HSI publishes and administers a set of [quality assurance standards](#) designed to monitor and improve the performance of HSI, its approved Training Centers and Authorized Instructors so that the products and services provided meet or exceed the requirements of regulatory authorities and other approvers.
- f. HSI authorized instructors are required to comply with HSI quality assurance standards, including the requirement to proficient, up to date, currently authorized and teach according to the required knowledge and skill objectives and training program standard of the most current HSI training program used.
 - i. Only a current and active Instructor is authorized to teach HSI training programs and legitimately issue ASHI, EMS Safety or MEDIC First Aid certification cards
- g. HSI's emergency care training programs brands are currently accepted, approved or recognized as an industry credential meeting the requirements of more than 7000 US state regulatory agencies, occupational licensing boards, national associations, commissions and councils in more than 550 occupations and professions.
- h. HSI is a member of the Council on Licensure, Enforcement and Regulation ([CLEAR](#)), the international resource for professional regulation stakeholders. HSI Quality Assurance representatives are [Nationally Certified Regulatory Investigators](#).
- i. HSI is a member of the American National Standards Institute ([ANSI](#)) and ASTM International ([ASTM](#)) – both globally recognized leaders in the development and delivery of international voluntary consensus standards.

II. Conclusion

HSI is a national organization and a nationally accredited continuing education provider. We request that the Board recognize us as such and that this recognition be put into place with the approval of our newly submitted courses. We value, believe in, and promote successful completion of a valid CPR and first aid training program as an important component in protecting public safety, health, and welfare. We look forward to helping the Board and Division protect the health and safety of Oregonians.

Respectfully,



Ralph M. Shenefelt
Senior Vice President
Health and Safety Institute

Cc: Becky Rasca, Manager's Assistant and Customer Service Coordinator, Building Codes Division