SG 1 Attachments

SG 1 Roster 12-23-16 ................................................................. 2
IN16-0701 SC Installation 7-21-16 ..................................................... 3
NB16-0102 Failed Letter Ballot Comments 11-3-16 .......................... 5
NB16-0102 Webb Suggestions 11-3-16 ........................................... 6
NB16-0903 Vallance 12-1-16 ......................................................... 7
NB16-0904 Vallance 12-8-16 ......................................................... 9
NB16-0905 Vallance 12-8-16 ......................................................... 10
NB16-2801 Moore 10-28-16 ............................................................ 11
  PR16-0401 9-26-16 ................................................................. 11
  PR16-0403 9-26-16 ................................................................. 12
  PR16-0407 9-26-16 ................................................................. 13
  PR16-0409 9-26-16 ................................................................. 14
NB16-2802 Moore 10-28-16 ............................................................ 16
  PR16-0406 9-26-16 ................................................................. 16
  PR16-0409 9-26-16 ................................................................. 17
  PR16-0416 9-26-16 ................................................................. 19
NB16-2803 Moore 10-28-16 ............................................................ 20
NB16-2804 Moore 10-28-16 ............................................................ 21
NB16-2805 Moore 10-28-16 ............................................................ 22
NB16-2806 Moore 10-28-16 ............................................................ 23
NB16-2807 Moore 10-28-16 ............................................................ 24
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<th>Last Name</th>
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<th>Role</th>
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<td>Melissa</td>
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<td>Chair</td>
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<td>Don</td>
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<td>Todd</td>
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<td>H. Michael</td>
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<td>Paul</td>
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**General Description:** Is it standard operating procedure (per NBIC) to do hydrostatic pressure tests on installed ASME Section IV boilers at 150% of the rated pressure as part of the installation inspection?

**Question:**
If a pressure test has been performed and documented on the applicable Manufacturer’s Data Report for a boiler, pressure vessel or piping, is an additional pressure test required prior to initial operation?

**Reply:**
NO

---

**Interpretation IN16-0701**

**Proposed Interpretation**

<table>
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<tr>
<th>Inquiry:</th>
<th>IN16-0701</th>
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<tr>
<td>Source:</td>
<td>NB16-0801</td>
</tr>
<tr>
<td>Subject:</td>
<td>Pressure Testing - Part 1</td>
</tr>
<tr>
<td>Edition:</td>
<td>2015 NBIC</td>
</tr>
<tr>
<td>Question 1:</td>
<td>Is it standard operating procedure (per NBIC) to do hydrostatic pressure tests on installed ASME Section IV boilers at 150% of the rated pressure as part of the installation inspection?</td>
</tr>
<tr>
<td>Reply 1:</td>
<td>If a pressure test has been performed and documented on the applicable Manufacturer’s Data Report for a boiler, pressure vessel or piping, is an additional pressure test required prior to initial operation?</td>
</tr>
<tr>
<td>Committee’s Question:</td>
<td>No</td>
</tr>
<tr>
<td>Committee’s Rationale:</td>
<td>2.10.2 Power Boilers, 3.10.1 Heating Boilers, 4.6 Pressure Vessels, 5.4 Piping</td>
</tr>
<tr>
<td>Rationale:</td>
<td>It is not the intent of the code to mandate post construction testing at 150% of the rated pressure.</td>
</tr>
<tr>
<td>SC Vote</td>
<td>Passed – Unanimous</td>
</tr>
<tr>
<td>NBIC Vote</td>
<td></td>
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Attachment Page 3
2.10.2 PRESSURE TEST

Prior to initial operation, the completed boiler, including pressure piping, water columns, superheaters, economizers, stop valves, etc., shall be pressure tested in accordance with the original code of construction. Any pressure piping and fittings such as water columns, blowoff valves, feedwater regulators, superheaters, economizers, stop valves, etc., which are shipped connected to the boiler as a unit, shall be hydrostatically tested with the boiler and witnessed by an Inspector.

3.10.1 PRESSURE TEST

Prior to initial operation, the completed boiler, individual module, or assembled module, shall be subjected to a pressure test in accordance with the requirements of the original code of construction.

4.6 TESTING AND ACCEPTANCE

a) The installer shall exercise care during installation to prevent loose weld material, welding rods, small tools, and miscellaneous scrap metal from getting into the vessel. The installer shall inspect the interior of the vessel and its appurtenances where possible prior to making the final closures for the presence of foreign debris.

b) The completed pressure vessel shall be pressure tested in the shop or in the field in accordance with the original code of construction. When required by the Jurisdiction, owner or user, the Inspector shall witness the pressure test of the completed installation, including piping to the pressure gage, pressure relief device, and, if present, level control devices.

5.4 EXAMINATION, INSPECTION, AND TESTING

The owner shall ensure that all examinations, inspections, and tests required by the code of construction have been performed prior to operation.
<table>
<thead>
<tr>
<th>Name</th>
<th>Vote</th>
<th>Time</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welch, Paul</td>
<td>Approve</td>
<td>11/3/16 5:03 PM</td>
<td>I recommend approval with a minor change to the proposed wording in para b, second sentence to read: Prior to final acceptance, an operational test, with the approval of the Jurisdiction, shall be performed...</td>
</tr>
<tr>
<td>Pillow, James</td>
<td>Approve</td>
<td>10/1/16 8:00 AM</td>
<td>I approve the proposal, but suggest a minor editorial change in last sentence of first paragraph as follows. Prior to making the final closures, the installer shall inspect the interior of the vessel and its appurtenances where possible for the presence of foreign debris.</td>
</tr>
<tr>
<td>Webb, Michael</td>
<td>Disapprove</td>
<td>10/5/16 3:01 PM</td>
<td>At this time, I will vote to “disapprove” this item. My understanding of this action item was to generally consolidate the pressure testing requirements of the various Part 1, Sections into a more general practice to be described in Part 1, Section 1-General Guidelines. In my read whether intended or my misunderstanding, the product of the SC-installation effort may have offered the ASME code-requird pressure testing to be circumvented as presented in the SC-proposed paragraph “b).” To edit, I would propose for consideration the item as presented in the attachment or otherwise presented be inserted as: Part 1, Section 1, 1 4 1 b) with the current 1 4 1 b) re-introduced to become 1 4 1 c). As a note to the attachment, the text in red represents the text implying the operational test may satisfy final acceptance of the unit. — W. Webb. 10/5/16 Reference Document: NB16-0102 Failed Letter Ballot Part 1, Section 1 G. Guidelines proposed 1 4 1 b. 10-5-16.pdf</td>
</tr>
<tr>
<td>Troutt, Robby</td>
<td>Disapprove</td>
<td>10/6/16 8:09 AM</td>
<td>My disapproval is based on the lack of reference to a jurisdictional inspection prior to the operational test in paragraph (b). Some jurisdictions do not allow an operational test prior to the initial inspection.</td>
</tr>
</tbody>
</table>
| Sekely, Jim | Approve| 10/3/16 1:07 PM | 1.?? b) Change who’s to whose
At this time, I will vote to “disapprove” this item. My understanding of this action item was to; generally consolidate the pressure testing requirements of the various Part 1, Sections into a more general practice to be described in Part 1, Section 1-General Guidelines. In my read whether intended or my misunderstanding, the product of the SC-Installation effort may have offered the ASME code-required pressure testing to be circumvented as presented in the SC-proposed paragraph “b)”. To add, I would propose for consideration the item as presented here or otherwise presented be inserted as: Part 1, Section 1, 1.4.1 b) with the current 1.4.1 b) re-introduced to become 1.4.1 c). As a note: the text in red represents the text implying the operational test may satisfy final acceptance of the unit.

–M. Webb, 10-5-16

Background:
The action proposed is to generally describe and merge the pressure test and acceptance requirements found in Part 1, 2.10.2, 2.10.4, 3.10.1, 4.6, and 4.7.6 into a general topic found in Part 1, Section 1, Installation General Guidelines

1.4 CERTIFICATION, INSPECTION, AND JURISDICTIONAL REQUIREMENTS

1.4.1 RESPONSIBILITY

Note: Any proposed revision to the language presented by SC-Installation is double underlined.

A "NEW" 1.4.1 b)

1.4.1 b) EXAMINATION, TESTING, AND ACCEPTANCE

1) The installer shall exercise care during installation to prevent foreign debris not limited to, loose weld material, welding rods, small tools, and miscellaneous scrap metal from getting into the boiler, pressure vessel, adjacent system equipment or piping as applicable. The installer shall examine inspect the interior of the vessel aforementioned equipment and its appurtenances where possible prior to making the final equipment closures, all the while assuring for the presence absence of this foreign debris.

2) The completed boiler, pressure vessel, or adjacent piping, as applicable shall be pressure tested in the shop or in the field in accordance with the original code of construction. When required by the jurisdiction prior to final acceptance, an operational test shall be performed on any components whose pressure test is not documented under on the items’ item’s Manufacturer’s Data Report, when required. This test should be at a pressure not to exceed the lowest pressure relief device set-point, and shall be aligned with the equipment Manufacturer’s operating guidance, system-operating procedures and required controls. The test data shall be recorded and the data made available as required. This operational test may be used as the final acceptance of the unit; if allowed by the jurisdiction.

1.4.1 c) The current 1.4.1 b) (NBIC Part 1, 2015-edition) now becomes 1.4.1 c) in its entirety
Action Item Request Form

12/1/2016

Request for Code revision:

a) Proposed Revisions or Additions

Existing Text: **NBIC PART 1 2015**

3.7.5.2 POTABLE WATER HEATERS

Stop valves shall be installed in the supply and discharge pipe connections of a water heater installation to permit draining the water heater without emptying the system. See NBIC Part 1, Figures 3.7.5.2-a and 3.7.5.2-b.

b) Provide a brief explanation of the need for the revision or addition.

In the figure 3.7.5.2-b there are no stop valves shown on the supply and return piping as is stated in paragraph 3.7.5.2.
c) Background Information

The valves are shown in figure 3.7.5.2-a

![Figure 3.7.5.2-a](image)

Water heater with top relief opening  Water heater with side relief opening

d) Consider adding the valves to the supply and return to figure 3.7.5.2-b as stated in paragraph 3.7.5.2

William Vallance
Senior Staff Engineer
The National Board
614 888 8320 ext. 409
Request for Code revision:

a) Proposed Revisions or Additions

Existing Text: **NBIC PART 1 2017 Approved Draft**

<table>
<thead>
<tr>
<th>NB10-1201</th>
<th>GENERAL REQUIREMENTS</th>
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<tbody>
<tr>
<td>Part 1, 1.6</td>
<td>The following are general requirements for the boilers, heaters and pressure vessels covered in NBIC Part 1, Section 2, NBIC Part 1 Section 3, NBIC Part 1 Section 4, and NBIC Part 1 Supplement 5. Refer to each referenced section for additional requirements specific to the type of equipment covered by each section.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NB10-1201</th>
<th>SUPPORTS, FOUNDATIONS, AND SETTINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part 1, 1.6.1</td>
<td>Each boiler, heater, vessel and its 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), and loadings (including the weight of the fluid in the system during a pressure test) in accordance with jurisdictional requirement, manufactures recommendations.</td>
</tr>
</tbody>
</table>

b) Statement of Need

In the 2017 General Requirements the term is used “heater” in various paragraphs when there is no explanation of what type of heater this term is for.

c) Background Information

To be able to explain this term to perspective IS commissioned inspectors or owner/users would be difficult if we were to assume its meaning without code wording.

d) I would suggest stating in each paragraph what heaters the text is for such as, potable water heater, superheater, or thermal fluid heaters.

William Vallance  
Senior Staff Engineer  
The National Board  
614 888 8320 ext. 409
Action Item Request Form
12/8/2016

Request for Code revision:

a) Proposed Revisions or Additions

Existing Text: **NBIC PART 1 2017 Approved Draft**

1.6.3
Two means of exit shall be provided for equipment rooms exceeding 500 sq. ft. (46.5 sq. m) of 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 each other. A platform at top of a single boiler, **heater**, vessel is not considered an elevation.

b) Statement of Need

Need is to bring a fired appliance such as a potable water heater into the combined fuel capacity for the equipment room.

c) I would suggest the following:

Two means of exit shall be provided for equipment rooms exceeding 500 sq. ft. (46.5 sq. m) of floor area and containing one or more boilers **and** **potable water heaters** 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 each other. A platform at top of a single boiler, **heater**, **and** vessel is not considered an elevation.

William Vallance
Senior Staff Engineer
The National Board
614 888 8320 ext. 409
National Board of Boiler and Pressure Vessel Inspectors  
National Board Inspection Code  
Submission of Public Review Comment  
2017 Draft Edition

PLEASE SUBMIT ONLY ONE COMMENT/RECOMMENDATION PER PAGE  
Make additional copies as needed

Comments Must be Received No Later Than: October 10, 2016

Instructions: If unable to submit electronically, please print this form and fax or mail. Print or type clearly.

Date: September 19, 2016

Commenter Name: Brian W. Moore

Commenter Address: Hartford Steam Boiler, One State Street  
P.O. Box 5024, Hartford, CT 06102-5024

Commenter Phone: 860-722-5657

Commenter Fax: 860-722-5530

Commenter Email: brian_moore@hsb.com

Section/Subsection Referenced: Part 1 Section 1.6.1


Including the phrase "manufacturer’s recommendations, and/or other industry standards, as applicable" is scope creep and beyond the knowledge and training of boiler inspectors. Structure standards should not be directly or indirectly made part of the "requirements" in Part 1. An in-service inspector has no way of verifying the requirements of other unspecified standards.

Delete the phrase noted above.

Source: □ Own Experience/Idea  ■ Other Source/Article/Code/Standard

Submit Form To: Bradley Besserman, NBIC Secretary, The National Board of Boiler & Pressure Vessel Inspectors, 1055 Crupper Avenue, Columbus, OH 43229, email: bbesserman@nationalboard.org

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Commenter No. Issued: ____________________________  Project Committee Referred To:

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Commenter Email: brian_moore@hsb.com

Section/Subsection Referenced: Part 1 Section 1.6.2 a


Including subparagraph b) "manufacturer’s recommendations, and/or other industry standards, as applicable" is scope creep and beyond the knowledge and training of boiler inspectors. Structure standards should not be directly or indirectly made part of the "requirements" in Part 1.

Delete the phrase noted above.

Source: ■ Own Experience/Idea □ Other Source/Article/Code/Standard

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Section/Subsection Referenced: Part 1 Section 1.6.5a


Including the phrase "manufacturer’s recommendations, and/or other industry standards, as applicable" is scope creep and beyond the knowledge and training of boiler inspectors. Structure standards should not be directly or indirectly made part of the "requirements" in Part 1. An in-service inspector has no way of verifying the requirements of other unspecified standards, such as Building Codes, Mechanical Codes, Fire Codes, or Electrical Codes.

Delete the phrase ", and/or other industry standards, as applicable".

Source: ■ Own Experience/Idea  □ Other Source/Article/Code/Standard

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Commenter Fax: 860-722-5530

Commenter Email: brian_moore@hsb.com

Section/Subsection Referenced: Part 1 Section 1.6.8


See attached comments.

Source: ■ Own Experience/Idea □ Other Source/Article/Code/Standard

Submit Form To: Bradley Besserman, NBIC Secretary, The National Board of Boiler & Pressure Vessel Inspectors, 1055 Crupper Avenue, Columbus, OH 43229, email: bbesserman@nationalboard.org

NB Use Only

Commenter No. Issued: ________________ Project Committee Referred To:

Comment No. Issued: ________________
Part 1 Section 1.6.8

The proposed subparagraph 1.6.8 directly contradicts subparagraph 1.4.1 with regard to "environmental requirements".

Subparagraph 1.6.8 reads: "Chimneys or stacks shall be installed in accordance with jurisdictional and environmental requirements, manufacturer’s recommendations, and/or industry standards, as applicable."

Subparagraph 1.4.1 reads: "Unless otherwise specifically required by the Jurisdiction, the duties of the inservice inspector do not include the installation’s compliance to other standards and requirements (e.g., environmental..."

Delete reference to "environmental requirements"

Including the phrase "manufacturer’s recommendations, and/or industry standards, as applicable" is scope creep and beyond the knowledge and training of boiler inspectors. Structure standards should not be directly or indirectly made part of the "requirements" in Part 1. An in-service inspector has no way of verifying the requirements of other unspecified standards, such as Building Codes, Mechanical Codes, Fire Codes, or Electrical Codes.
Comments Must be Received No Later Than: October 10, 2016

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Commenter Address: Hartford Steam Boiler, One State Street
                  P.O. Box 5024, Hartford, CT 06102-5024

Commenter Phone: 860-722-5657

Commenter Fax: 860-722-5530

Commenter Email: brian_moore@hsb.com

Section/Subsection Referenced: Part 1 Section 1.6.5


The proposed subparagraph 1.6.5 directly contradicts subparagraph 1.4.1 with regard to "environmental requirements".

Subparagraph 1.6.5 reads: "All fuel systems shall be installed in accordance with jurisdictional and environmental requirements, manufacturer’s recommendations, and/or industry standards, as applicable."

Subparagraph 1.4.1 reads: "Unless otherwise specifically required by the Jurisdiction, the duties of the inservice inspector do not include the installation’s compliance to other standards and requirements (e.g., environmental..."

Delete reference to "environmental requirements"

Source: ■ Own Experience/Idea □ Other Source/Article/Code/Standard

Submit Form To: Bradley Besserman, NBIC Secretary, The National Board of Boiler & Pressure Vessel Inspectors, 1055 Crupper Avenue, Columbus, OH 43229, email: bbesserman@nationalboard.org

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September 19, 2016

Brian W. Moore
Hartford Steam Boiler, One State Street
P.O. Box 5024, Hartford, CT 06102-5024
860-722-5657
860-722-5530
brian_moore@hsb.com

Part 1 Section 1.6.8

See attached comments.

Source: Own Experience/Idea

Submit Form To: Bradley Besserman, NBIC Secretary, The National Board of Boiler & Pressure Vessel Inspectors, 1055 Crupper Avenue, Columbus, OH 43229, email: bbesserman@nationalboard.org

NB Use Only

Project Committee Referred To:
Part 1 Section 1.6.8

The proposed subparagraph 1.6.8 directly contradicts subparagraph 1.4.1 with regard to "environmental requirements".

Subparagraph 1.6.8 reads: "Chimneys or stacks shall be installed in accordance with jurisdictional and environmental requirements, manufacturer’s recommendations, and/or industry standards, as applicable."

Subparagraph 1.4.1 reads: "Unless otherwise specifically required by the Jurisdiction, the duties of the inservice inspector do not include the installation’s compliance to other standards and requirements (e.g., environmental..."

Delete reference to "environmental requirements"

Including the phrase "manufacturer’s recommendations, and/or other industry standards, as applicable" is scope creep and beyond the knowledge and training of boiler inspectors. Structure standards should not be directly or indirectly made part of the "requirements" in Part 1. An in-service inspector has no way of verifying the requirements of other unspecified standards, such as Building Codes, Mechanical Codes, Fire Codes, or Electrical Codes.
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Commenter Phone: 860-722-5657

Commenter Fax: 860-722-5530

Commenter Email: brian_moore@hsb.com

Section/Subsection Referenced: Part 1, Supplement 6.2

Comment/Recommendation:  

Proposed Solution: □ New Text □ Revise Text □ Delete Text

The proposed subparagraph S6.2 directly contradicts subparagraph 1.4.1 with regard to "environmental requirements".

S6.2 reads: The allowable operating parameters of the combustion air intake and the exhaust gas venting shall be in accordance with jurisdictional, environmental and manufacturers recommendations, as applicable

Subparagraph 1.4.1 reads: "Unless otherwise specifically required by the Jurisdiction, the duties of the inservice inspector do not include the installation's compliance to other standards and requirements (e.g., environmental...)"

Delete reference to "environmental requirements"

Source:  ■ Own Experience/Idea □ Other Source/Article/Code/Standard

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Commenter Phone: 860-722-5657

Commenter Fax: 860-722-5530

Commenter Email: brian_moore@hsb.com

Section/Subsection Referenced: Part 1 Section 2.5.3.2


In place of the deleted text in subparagraph d) add the following:

d) Remote emergency shutdown switches shall not be retroactively installed.

Rationale: In my experience, the electricians who retroactively install such switches do not understand boiler safety limit controls. Too many claims and near misses occur when a control is retroactively installed by unqualified individuals. In addition, tapping into the controls on some older boilers could even be hazardous since the controls were probably not designed to handle that circuit. Such switches should only be addressed in new installations.

Source: ■ Own Experience/Idea □ Other Source/Article/Code/Standard

Submit Form To: Bradley Besserman, NBIC Secretary, The National Board of Boiler & Pressure Vessel Inspectors, 1055 Crupper Avenue, Columbus, OH 43229, email: bbesserman@nationalboard.org
NB-23 NBIC is an ANSI accredited consensus standard. However, NB-27 is not. I do not think this paragraph meets ANSI Essential Requirements by making the paragraph mandatory. There has been no public review or comment on NB-27.

Change text as follows to meet ANSI Essential Requirements:

p) Boiler blowoff systems may be constructed as recommended in the Guide for Blowoff Vessels (NB-27), which can be found on the National Board website, www.nationalboard.org.
National Board of Boiler and Pressure Vessel Inspectors  
National Board Inspection Code  
Submission of Public Review Comment  
2017 Draft Edition

Comments Must be Received No Later Than: October 10, 2016

Instructions: If unable to submit electronically, please print this form and fax or mail. Print or type clearly.

Date: September 19, 2016

Commenter Name: Brian W. Moore

Commenter Address: Hartford Steam Boiler, One State Street  
P.O. Box 5024, Hartford, CT 06102-5024

Commenter Phone: 860-722-5657

Commenter Fax: 860-722-5530

Commenter Email: brian_moore@hsb.com

Section/Subsection Referenced: Part 1 Section 3.8.1.5


Change "water" to "fluid" in "...a) Each automatically fired steam or vapor-system boiler shall have an automatic low-water fuel cutoff so located as to automatically cut off the fuel supply when the surface of the water falls to..."

Delete: "...or vapor-system..."

Rationale: This is the only location within this paragraph that uses this term "vapor-system boiler". Including thermal fluid heaters, other types of vaporizing boilers contain a fluid other than water.  
See also Comment Part 1, 2.8.5.

Source: ■ Own Experience/Idea □ Other Source/Article/Code/Standard

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"b) This supplement is based on Local, State or National Building Codes requiring the installation of a Carbon Monoxide (CO) detector/alarm in the boiler room."

Delete this text.

Rationale: Building Codes, Mechanical Codes, Electric Codes, etc are beyond the knowledge and training of in-service boiler inspectors and are the providence of building officials. This is scope creep beyond what in-service boiler inspectors should be responsible.
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Section/Subsection Referenced: Part 1 Part 1, Supplement 6.4


The entire S6.4 addresses requirements that represent scope creep beyond the knowledge and training of in-service boiler inspectors. The information is, however, good guidance for installers and owners. In-service inspectors have no way judge the adequacy of S6.4 provisions.

Rewrite the section to make it clear to jurisdictional authorities that the section is the responsibility of the owner and installer.

See attached suggestion.

Source: □ Own Experience/Idea □ Other Source/Article/Code/Standard

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NB Use Only

Commenter No. Issued: __________________________ Project Committee Referred To:

Comment No. Issued: __________________________
Part 1

S6.4 FLUE GAS VENTING SYSTEM PIPING REQUIREMENTS

**RECOMMENDATIONS**

**ea)** This supplement requires recommends that the owner/user/installer contact the authority having Jurisdiction regarding the installation of carbon monoxide (CO) detector/alarm in boiler rooms in which condensing boilers are to be installed.

**ab)** The vent piping shall should be corrosion resistant and fabricated from either stainless alloy or plastic material as defined by the boiler manufacturer and certified for the application.

**bc)** The diameter of the vent piping shall should be as defined by the boiler manufacturer and shall should not be reduced, except as allowed by the boiler manufacturer.

**cd)** The “Total Equivalent Length” of the vent piping, and the pressure drop through the vent piping, shall should not exceed that stated in the Boiler Manufacturer’s Installation Manual. (Note: Equivalent Length includes the pressure loss effect of various pipe fittings, such as elbows, etc.) Horizontal pipe runs shall should slope toward the boiler and the condensate collection point.

**de)** The termination point of the vent piping shall should be positioned such that there is no possibility of vented flue gas being entrained in the combustion air intake, as defined by the manufacturer and National Fuel Gas Code (ANSI Z223.1). Additionally the vent termination shall should be located above the highest known snowline for the location involved, and be designed in such a manner, so as to prevent freezing.

**e)** This supplement requires the owner/user/installer contact the authority having Jurisdiction regarding the installation of carbon monoxide (CO) detector/alarm in boiler rooms in which condensing boilers are to be installed.