

Date Distributed: October 21st, 2016



**THE  
NATIONAL  
BOARD**  
OF BOILER AND  
PRESSURE VESSEL  
INSPECTORS

# **NATIONAL BOARD SUBCOMMITTEE INSPECTION**

## **MINUTES**

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Meeting of October 19<sup>th</sup>, 2016  
WebEx Online Meeting

These minutes are subject to approval and are for committee use only. They are not to be duplicated or quoted for other than committee use.

The National Board of Boiler & Pressure Vessel Inspectors  
1055 Crupper Avenue  
Columbus, Ohio 43229-1183  
Phone: (614)888-8320  
FAX: (614)847-1828

## 1. Call to Order

The meeting was called to order at 11:00am Eastern time.

## 2. Introduction of Members and Visitors

A roll call was taken to ensure all members were present and properly connected to the WebEx. The following people were present:

- H. Michael Richard – SC Installation Chair
- Don Patten – SC Installation Vice Chair
- Jeanne Bock – SC Installation Secretary
- Geoffrey Halley – SC Installation Member
- Stanley Konopacki – SC Installation Member
- Brian Moore – SC Installation Member
- Paul Schuelke – SC Installation Member
- Melissa Wadkinson – SC Installation Member
- Edward Wiggins – SC Installation Member
- Don Cook – NBIC Committee Chair
- Bob Wielgoszinski - NBIC Committee Vice Chair
- Brad Besserman – NBIC Secretary
- Gary Scribner – NB Manager of Technical Services

## 3. Adoption of the Agenda

The agenda was adopted as published.

## 4. Public Review Comments

<b>Item Number: PR16-0401</b>	<b>NBIC Location: Part 1, 1.6.1</b>	<b>Attachment Page 1</b>
<b>General Description:</b> Use of term 'manufacturer's recommendations' in regard to structural requirements		
<b>Meeting Action:</b> A #2 response of “Accept in principal, new business item opened” was proposed for this item. The committee approved this action with seven approve votes, and one not voting from Stan Konopacki due to late connection to the call.		

<b>Item Number: PR16-0402</b>	<b>NBIC Location: Part 1, 1.6.2</b>	<b>Attachment Page 2</b>
<b>General Description:</b> Editorial		
<b>Meeting Action:</b> A #1 response of “Accepted, changes are incorporated” was proposed for this item. The committee approved this action with a unanimous vote.		

<b>Item Number: PR16-0403</b>	<b>NBIC Location: Part 1, 1.6.2 a)</b>	<b>Attachment Page 3</b>
<b>General Description:</b> Use of term 'manufacturer's recommendations' in regard to structural requirements		
<b>Meeting Action:</b> A #2 response of “Accept in principal, new business item opened” was proposed for this item. The committee approved this action with a unanimous vote.		
<b>Item Number: PR16-0404</b>	<b>NBIC Location: Part 1, 1.6.4</b>	<b>Attachment Page 4</b>
<b>General Description:</b> Use of term 'manufacturer's recommendations' in regard to structural requirements		
<b>Meeting Action:</b> A #4 response of “Rejected for the following reason: The submitter acknowledged the comment was submitted in error” was proposed for this item. The committee approved this action with a unanimous vote.		
<b>Item Number: PR16-0405</b>	<b>NBIC Location: Part 1, 1.6.4 a)</b>	<b>Attachment Page 5</b>
<b>General Description:</b> Editorial		
<b>Meeting Action:</b> A #1 response of “Accepted, changes are incorporated” was proposed for this item. The committee approved this action with a unanimous vote.		
<b>Item Number: PR16-0406</b>	<b>NBIC Location: Part 1, 1.6.5</b>	<b>Attachment Page 6</b>
<b>General Description:</b> Contradiction in requirements regarding environmental standards		
<b>Meeting Action:</b> A #2 response of “Accept in principal, new business item opened” was proposed for this item. The committee approved this action with a unanimous vote.		
<b>Item Number: PR16-0407</b>	<b>NBIC Location: Part 1, 1.6.5 a)</b>	<b>Attachment Page 7</b>
<b>General Description:</b> Use of term 'manufacturer's recommendations' in regard to structural requirements		
<b>Meeting Action:</b> A #2 response of “Accept in principal, new business item opened” was proposed for this item. The committee approved this action with a unanimous vote.		
<b>Item Number: PR16-0408</b>	<b>NBIC Location: Part 1, 1.6.6</b>	<b>Attachment Page 8</b>
<b>General Description:</b> Editorial		
<b>Meeting Action:</b> A #1 response of “Accepted, changes are incorporated” was proposed for this item. The committee approved this action with a unanimous vote.		
<b>Item Number: PR16-0409</b>	<b>NBIC Location: Part 1, 1.6.8</b>	<b>Attachment Page 9-10</b>
<b>General Description:</b> Contradiction in requirements regarding environmental standards		
<b>Meeting Action:</b> A #2 response of “Accept in principal, new business item opened” was proposed for this item. The committee approved this action with a unanimous vote.		

<b>Item Number: PR16-0410</b>	<b>NBIC Location: Part 1, 2.5.3.2</b>	<b>Attachment Page 11</b>
<b>General Description:</b> Add requirement prohibiting retroactive installation of remote emergency shutdown switches		
<b>Meeting Action:</b> A #2 response of “Accept in principal, new business item opened” was proposed for this item. The committee approved this action with a unanimous vote.		
<b>Item Number: PR16-0411</b>	<b>NBIC Location: Part 1, 2.7.5 p)</b>	<b>Attachment Page 12</b>
<b>General Description:</b> Change "shall" to "may" to make use of NB-27 optional in design of blowoff systems		
<b>Meeting Action:</b> A #2 response of “Accept in principal, new business item opened” was proposed for this item. The committee approved this action with a unanimous vote.		
<b>Item Number: PR16-0412</b>	<b>NBIC Location: Part 1, 3.8.1.5</b>	<b>Attachment Page 13</b>
<b>General Description:</b> Editorial		
<b>Meeting Action:</b> A #2 response of “Accept in principal, new business item opened” was proposed for this item. The committee approved this action with a unanimous vote.		
<b>Item Number: PR16-0413</b>	<b>NBIC Location: Part 1, 3.8.2.3</b>	<b>Attachment Page 14</b>
<b>General Description:</b> Keep original text in 3.8.2.3 b), which matches text in CSD-1		
<b>Meeting Action:</b> A #4 response of “Rejected for the following reason: Section IV has already approved language consistent with the change. Additionally, an item is open for CSD-1 to change wording to be consistent with the proposed change. The comment is rejected for consistency with the other standards.” was proposed for this item. The committee approved this action with seven approve votes and one disapprove vote from Brian Moore.		
<b>Item Number: PR16-0414</b>	<b>NBIC Location: Part 1, 3.9.2</b>	<b>Attachment Page 15</b>
<b>General Description:</b> Delete notes for Table 3.9.2, which is shown as deleted in the public review document		
<b>Meeting Action:</b> A #1 response of “Accepted, changes are incorporated” was proposed for this item. The committee approved this action with a unanimous vote.		
<b>Item Number: PR16-0415</b>	<b>NBIC Location: Part 1, S6.1 b)</b>	<b>Attachment Page 16</b>
<b>General Description:</b> Delete paragraph b) because knowledge of building, mechanical, electric codes is beyond the knowledge and training of inservice inspectors		
<b>Meeting Action:</b> A #2 response of “Accept in principal, new business item opened” was proposed for this item. The committee approved this action with seven approve votes and one not voting response from Geoffrey Halley.		
<b>Item Number: PR16-0416</b>	<b>NBIC Location: Part 1, S6.2</b>	<b>Attachment Page 17</b>
<b>General Description:</b> Contradiction in requirements regarding environmental standards		
<b>Meeting Action:</b> A #2 response of “Accept in principal, new business item opened” was proposed for this item. The committee approved this action with a unanimous vote.		

**General Description:** Requirements are beyond knowledge of inservice inspectors. Rewrite the section to clarify that it is intended as guidance to owners and installers, not requirements for inspectors

**Meeting Action:** A #2 response of “Accept in principal, new business item opened” was proposed for this item. The committee approved this action with seven approve votes and one not voting response from Geoffrey Halley.

## 5. Future Meetings

January 9-12, 2017 – San Diego, California

July 17-20, 2017 – Columbus, Ohio

## 6. Adjournment

The meeting was adjourned at 1:05pm Eastern time.

Respectfully submitted,



Brad Besserman

NBIC Secretary

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**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

Comment/Recommendation: *Proposed Solution:*  New Text  Revise Text  Delete Text

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](mailto:bbesserman@nationalboard.org)

**NB Use Only**

Commenter No. Issued: \_\_\_\_\_ Project Committee Referred To: \_\_\_\_\_  
Comment No. Issued: PR16-0401 9-26-16 \_\_\_\_\_

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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 1.6.2

Comment/Recommendation: *Proposed Solution:*  New Text  Revise Text  Delete Text

Typo - the word "or" is missing between the comma and "vessel" in the list: a) If the boiler, heater, vessel is supported

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 1.6.2 a

Comment/Recommendation: *Proposed Solution:*  New Text  Revise Text  Delete Text

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.

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Commenter Fax: 860-722-5530

Commenter Email: brian\_moore@hsb.com

Section/Subsection Referenced: Part 1 Section 1.6.4

Comment/Recommendation: *Proposed Solution:*  New Text  Revise Text  Delete Text

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

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Project Committee Referred To: \_\_\_\_\_

Comment No. Issued: PR16-0404 9-26-16

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Section/Subsection Referenced: Part 1 Section 1.6.4

Comment/Recommendation: *Proposed Solution:*  New Text  Revise Text  Delete Text

Typo - the word "or" is missing between the comma and "vessel" in the list: "boiler, heater, vessel is supported.

Insert "or".

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

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Commenter Email: brian\_moore@hsb.com

Section/Subsection Referenced: Part 1 Section 1.6.5

Comment/Recommendation: *Proposed Solution:*  New Text  Revise Text  Delete Text

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

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Commenter Email: brian\_moore@hsb.com

Section/Subsection Referenced: Part 1 Section 1.6.5a

Comment/Recommendation: *Proposed Solution:*  New Text  Revise Text  Delete Text

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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Comment No. Issued: PR16-0407 9-26-16 \_\_\_\_\_

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Commenter Fax: 860-722-5530

Commenter Email: brian\_moore@hsb.com

Section/Subsection Referenced: Part 1 Section 1.6.6

Comment/Recommendation: *Proposed Solution:*  New Text  Revise Text  Delete Text

Typo - in both a) and b), the word "or" is missing between the comma and "vessel" in the list: "boiler, heater, vessel..."

Insert "or".

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

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Comment No. Issued: PR16-0408 9-26-16 \_\_\_\_\_

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Commenter Email: brian\_moore@hsb.com

Section/Subsection Referenced: Part 1 Section 1.6.8

Comment/Recommendation: *Proposed Solution:*  New Text  Revise Text  Delete Text

See attached comments.

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

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Comment No. Issued: PR16-0409 9-26-16 \_\_\_\_\_

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"

=====

Also delete the phrase ", and/or industry standards, as applicable."

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.

PR16-0409 9-26-16

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Commenter Email: brian\_moore@hsb.com

Section/Subsection Referenced: Part 1 Section 2.5.3.2

Comment/Recommendation: *Proposed Solution:*  New Text  Revise Text  Delete Text

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

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Comment No. Issued: PR16-0410 9-26-16 \_\_\_\_\_



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Section/Subsection Referenced: Part 1 Section 2.7.5 p)

Comment/Recommendation: *Proposed Solution:*  New Text  Revise Text  Delete Text

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](http://www.nationalboard.org).

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

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Comment No. Issued: PR16-0411 9-26-16 \_\_\_\_\_

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Section/Subsection Referenced: Part 1 Section 3.8.1.5

Comment/Recommendation: *Proposed Solution:*  New Text  Revise Text  Delete Text

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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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 3.8.2.3

Comment/Recommendation: *Proposed Solution:*  New Text  Revise Text  Delete Text

Do not change 3.8.2.3b)

Rationale: The original language is not broken. The language is consistent with CSD-1.

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Section/Subsection Referenced: Part 1 Table 3.9.2

Comment/Recommendation: *Proposed Solution:*  New Text  Revise Text  Delete Text

Table 3.9.2 is indicated as deleted, but the associated notes are not.

Delete the notes.

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Section/Subsection Referenced: Part 1 Part 1, Supplement 6.1b)

Comment/Recommendation: *Proposed Solution:*  New Text  Revise Text  Delete Text

"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.

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

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Section/Subsection Referenced: Part 1 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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Section/Subsection Referenced: Part 1 Part 1, Supplement 6.4

Comment/Recommendation: *Proposed Solution:*  New Text  Revise Text  Delete Text

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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Comment No. Issued: PR16-0417 9-26-16 \_\_\_\_\_

## 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~~ 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.

~~ed)~~ 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.

~~ee)~~ 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.~~