

Date Distributed: July 28, 2017



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

**NATIONAL BOARD
SUBGROUP
PRESSURE RELIEF DEVICES**

MINUTES

Meeting of July 18, 2017
Columbus, OH

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The National Board of Boiler & Pressure Vessel Inspectors
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1. Call to Order

The meeting was called to order at 1:00 PM on Tuesday July 18, 2017 by Acting Chair Thomas P. Beirne.

The following members and visitors were in attendance:

Members

Marriane Brodeur
Kevin Simmons
Brandon Nutter
Sid Cammeresi
Adam Renaldo
Denis DeMichael
Dan Marek
Thakor Patel
David McHugh
Raymond McCaffrey
Kim Beise
J. Alton Cox
Thomas P. Beirne, P.E.

Affiliation

International Valve & Instrument Corp.
Emerson
DuPont
TeamFurmanite
Praxair
The Chemours Company
Mainthia Technologies
Farris Engineering
Allied Valve, Inc.
Quality Valve, Inc.
Dowco Valve
JAC Consulting, Inc.
National Board (Subgroup Secretary)

Members Not Present

R.W. Donalson Emerson

Visitors

Kristen Kraabel Dowco Valve Company
Joseph Ball National Board
Alfred Donaldson Baker Hughes
Emile Tezzo* Emerson

*Alternate for R.W. Donalson

2. Announcements

Mr. Beirne announced the reception for Wednesday and meals provided.

3. Adoption of the Agenda

The agenda dated June 29, 2017 was presented. Item 17-149 was added to the agenda. It was moved and seconded to approve the agenda with the additional item. The motion was unanimously approved.

4. Approval of Minutes

Not applicable. This was the inaugural meeting.

5. Review of the Roster

a. Nominations

- There are no applications for membership to SG PRD.

b. Reappointments

- There are no members eligible for reappointment to SG PRD.

c. Resignations

- None

d. Officer Selection

- SG PRD Chair—Mr. Kim Beise ran unopposed. A vote was taken to recommend Mr. Kim Beise to the SC PRD to be appointed Chair. The vote was unanimous in favor of recommending Mr. Beise.
- SG PRD Vice Chair—Mr. Daniel Marek and Mr. Thakor Patel were candidates for Vice Chair. A secret ballot was used to vote for the Vice Chair. Mr. Marek won by a majority vote. The recommendation was passed on to the Sub-Committee for consideration.

6. Interpretations

Item Number: IN16-0901	NBIC Location: Part 2, 4	No Attachment
General Description: In NBIC Part 2, Sec. 2.5.7g), does the phrase “organization accredited by the National Board” include a VR Certificate Holder?		
Subgroup: N/A		
Task Group: None Assigned		
Meeting Action: A motion was made and seconded to close this item with no action since the updated language in the 2017 edition negated the need for this interpretation. A vote was taken and the motion unanimously carried.		

7. Action Items

Item Number: NB12-0901	NBIC Location: Part 4	No Attachment
General Description: Prepare a guide for repair of tank vents		
Task Group: D. DeMichael (PM), K. Simmons, B. Donalson, K. Beise, B. Nutter		
Meeting Action: Mr. DeMichael stated work on the text continues and may have draft by the next meeting.		

Item Number: NB14-0602A	NBIC Location: Part 1	No Attachment
General Description: Improve index in Part 1 relating to pressure relief devices		
Task Group: M. Brodeur (PM), S. Cammeresi, K. Beise		
Meeting Action: Work will resume on this item since 2017 edition is now published. Should have proposal by next meeting.		

Item Number: NB14-0602B	NBIC Location: Part 2	No Attachment
General Description: Improve index in Part 2 relating to pressure relief devices		
Task Group: D. Marek (PM), B. Donalson, D. DeMichael, B. Hart		
Meeting Action: Work will resume on this item since 2017 edition is now published. Should have proposal by next meeting.		

Item Number: NB14-0602C	NBIC Location: Part 3	No Attachment
General Description: Improve index in Part 3 relating to pressure relief devices		
Task Group: B. Nutter (PM), R. McCaffrey, T. Patel, K. Simmons		
Meeting Action: Work will resume on this item since 2017 edition is now published. Should have proposal by next meeting.		

Item Number: NB15-0108B	NBIC Location: Part 1	No Attachment
General Description: Address pressure relief devices in new supplement on high temperature hot water boilers		
Task Group: A. Renaldo (PM), D. Marek, D. McHugh, B. Nutter		
Meeting Action: Work continues on this item.		

Item Number: NB15-0305	NBIC Location: Part 4	No Attachment
General Description: Create Guidelines for Installation of Overpressure Protection by System Design.		
Task Group: B. Nutter, A. Renaldo, D. Marek (PM), D. DeMichael		
Meeting Action: A draft proposal was presented. After discussion and guidance from a jurisdictional member, the proposal will be revised and presented at the next meeting.		

Item Number: NB15-0307	NBIC Location: Part 4	No Attachment
General Description: Create Guidelines for Repair of Pin Devices.		
Task Group: D. McHugh (PM), A. Renaldo, T. Tarbay, K. Kraabel		
Meeting Action: Work continues on this item. Should have draft by next meeting.		

Item Number: NB15-0308	NBIC Location: Part 4	No Attachment
General Description: - Create Guidelines for Installation of Pressure Relief Devices for Organic Fluid Vaporizers.		
Task Group: T. Patel (PM), K. Beise, B. Nutter		
Meeting Action: A draft proposal was presented. After discussion the proposal will be revised. Should have proposal ready to vote on by next meeting.		

Item Number: NB15-0310	NBIC Location: Part 4, 4.4.8.5 i)3)	No Attachment
General Description: Give Guidance as to Which Spring Chart Should be used in Repairs.		
Task Group: A. Cox (PM), B. Nutter, M. Brodeur, T. Patel, K. Simmons, R. McCaffrey, S. Irvin		
Meeting Action: Proposal was presented. After discussion a revised proposal maybe letter balloted before next meeting.		

Item Number: NB15-0315	NBIC Location: Part 4, 2.5.6 and 2.6.6 and Part 1, 4.5.6 and 5.3.6	No Attachment
General Description: Review isolation Valve Requirements, and reword to allow installation of pressure relief devices in upstream piping.		
Task Group: D. DeMichael (PM), B. Nutter, A. Renaldo, D. Marek		
Meeting Action: Mr. DeMichael gave presentation and requested input on how detailed text needs to be. After input from SG PRD may have proposal for next meeting. Item 17-129 was closed with no action and will be combined with this item.		

Item Number: NB15-0321	NBIC Location: Part 4, 3.2.5 a) and Part 2, 2.5.7 a)	No Attachment
General Description: Review testing requirements for inservice testing of pressure relief devices		
Task Group: A. Cox, A. Renaldo (PM), D. Marek, S. Irvin, D. DeMichael, B. Nutter, J. Ball		
Meeting Action: No progress made on this item.		

Item Number: NB15-0324	NBIC Location: Part 4	No Attachment
General Description: Create Guidelines for Inspection and Testing Frequencies with respect to shelf life and storage of pressure relief valves.		
Task Group: A. Rendaldo (PM), B. Nutter, K. Simmons, D. Marek, J. Little		
Meeting Action: Mr. Renaldo presented a draft proposal that will be letter balloted between meetings. J. Little added to task group.		

Item Number: NB16-0401	NBIC Location: Part 4	No Attachment
General Description: Inconsistencies with Seal I.D. vs. Nameplate for test only		
Task Group: A. Donaldson (PM), S. Irvin, T. Patel, D. Marek, M. Brodeur, B. Nutter		
Meeting Action: No progress was made on this item. PM switched to A. Donaldson who was added to task group.		

Item Number: NB16-0603	NBIC Location: Part 4 S6	Attachment A
General Description: Add requirements for when the "NR" program is applied to safety related relief valves in nuclear service, came from NR task group		
Task Group: NR Task Group		
Meeting Action: Mr. Ball presented an updated proposal based on comments received from the previous letter ballot. After addressing negative comments a motion was made and seconded to accept the updated proposal. After further discussion a vote was taken with unanimous acceptance except for one negative (Cox) and one abstention (Cammeresi). After further discussion and revised proposal being voted on at the SC-PRD Mr. Cox and Mr. Cammeresi changed their votes to affirmative. Allowing the motion to carry unanimously.		

Item Number: NB16-0805	NBIC Location: Part 4, 2.6.6 and Part 1, 5.3.6	No Attachment
General Description: Temperature ratings for discharge piping and fittings		
Task Group: A. Renaldo (PM), T. Patel, D. Marek		
Meeting Action: Task group work continues on this item. May letter ballot SG between meetings.		

Item Number: NB16-3101	NBIC Location: Part 4	Attachment B
General Description: Result of PR16-0501, add additional information about T/O program to NBIC		
Task Group: None assigned		
Meeting Action: Mr. Beirne presented a proposal. A motion was made and seconded to accept the proposal. After discussion a vote was taken and the motion unanimously carried. This item was forwarded to the sub-committee for action.		

Item Number: NB17-0401	NBIC Location: Part 4	No Attachment
General Description: Valve drain plug recommendations for shipping.		
Task Group: (PM) K. Beise, M. Brodeur, R. McCaffrey		
Meeting Action: No progress made. R. McCaffrey added to task group.		

Item Number: NB17-0402	NBIC Location: Part 4	No Attachment
General Description: Review Part 4 Index.		
Task Group: A. Cox (PM), S. Irvin, K. Beise, K. Simmons		
Meeting Action: No progress. A. Cox added to task group.		

Item Number: NB17-0403	NBIC Location: Part 4	No Attachment
General Description: Review Part 4 for including new T/O requirements.		
Task Group: (PM) K. Simmons, D. McHugh, A. Cox, D. Marek		
Meeting Action: No progress. A. Cox and D. Marek added to task group.		

Item Number: 17-115	NBIC Location: Part 4, Section 2	No Attachment
General Description: Complete rewrite of Section 2 combining common requirements into a general requirements section for all pressure relief devices and look at combining with 2.4.3, 2.4.4.		
Task Group: A. Renaldo (PM), D. McHugh, D. Marek		
Meeting Action: A task group was formed to work on this item. Item 17-124 was closed with no action and combined with this item.		

Item Number: 17-116	NBIC Location: Part 4, 2.2.1 a) and Part 1, 2.9.1 a)	Attachment C
General Description: Add provision allowing power operated valves. Paragraph 2.2.1 b) Delete this paragraph		
Task Group: None assigned.		
Meeting Action: Mr. Beirne presented a proposal. A motion was made and seconded to accept the proposal. After discussion, a vote was taken and the motion carried unanimously. This item was forwarded to the sub-committee for action.		

Item Number: 17-117	NBIC Location: Part 4, 2.2.1 g) and Part 1, 2.9.1 g)	No Attachment
General Description: clarify what "properly vented" means		
Task Group: R. McCaffrey (PM), M. Brodeur		
Meeting Action: A task group was formed to work on this item.		

Item Number: 17-118 NBIC Location: Part 4, 2.2.4 c) and Part 1, 2.9.1.3 c) No Attachment
General Description: Provide metric equivalent and possibly express conversion as formula instead of paragraph.
Task Group: B. Nutter (PM)
Meeting Action: A task group was formed to work on this item.

Item Number: 17-119 NBIC Location: Part 4, 2.2.5 and Part 1, 2.9.1.4 No Attachment
General Description: States pressure setting may exceed 10% range. Clarify by how much.
Task Group: T. Patel (PM), D. Marek
Meeting Action: A task group was formed to work on this item.

Item Number: 17-120 NBIC Location: Part 4, 2.2.10 d) and Part 1, 2.9.6 d) Attachment D
General Description: Add Changeover valve definition in glossary and remove definition from text.
Task Group: None assigned.
Meeting Action: Mr. Beirne presented a proposal. A motion was made and seconded to accept the proposal. After discussion, a vote was taken and the motion carried unanimously. This item was forwarded to the sub-committee for action.

Item Number: 17-121 NBIC Location: Part 4, 2.2.10 e), h) and Part 1 2.9.6 e),h) Attachment E
General Description: e) Language needs cleaned up. h) delete "so located or piped as to be carried clear from running boards or platforms."
Task Group: None assigned.
Meeting Action: Mr. Beirne presented a proposal. A motion was made and seconded to accept the proposal. After discussion, a vote was taken and the motion carried unanimously. This item was forwarded to the sub-committee for action.

Item Number: 17-122 NBIC Location: Part 4, 2.3.6 g) and Part 2, 2.2.12.7 f) No Attachment
General Description: Clean up last sentence of main paragraph. Possibly break into two paragraphs to consider hazards at the discharge and hazards along discharge piping
Task Group: T. Patel (PM), B. Nutter, K. Beise
Meeting Action: A task group was formed to work on this item.

Item Number: 17-123 NBIC Location: Part 4, 2.3.6 h) Attachment F
General Description: Clarify what is suitable
Task Group: None assigned.
Meeting Action: A motion was made and seconded to delete the word "suitable" in per the attached proposal. After discussion, a vote was taken and the motion carried unanimously. This item was forwarded to the sub-committee for action.

Item Number: 17-124 NBIC Location: Part 4, 2.4.1.6 and Part 1, 3.9.1.6 No Attachment
General Description: look at combining with 2.4.3, 2.4.4
Task Group: None assigned.
Meeting Action: A motion was made and seconded to close this item with no action and combine this item with 17-115. After discussion, a vote was taken and the motion carried unanimously. This item was forwarded to the sub-committee for action.

Item Number: 17-125 NBIC Location: Part 4, 2.4.2 and Part 1, 3.9.2 Attachment G
General Description: Delete last sentence "The inlet opening shall have an inside diameter equal to or greater than the seat diameter". This is a manufacturing requirement and the inspector has no way of verifying this after installation.
Task Group: None assigned.
Meeting Action: Mr. Beirne presented a proposal. A motion was made and seconded to accept the proposal. After discussion, a vote was taken and the motion carried unanimously. This item was forwarded to the sub-committee for action.

Item Number: 17-126 NBIC Location: Part 4, 2.4.2 and Part 1, 3.9.2 No Attachment
General Description: Determination of the valve capacity using the maximum output method needs to be described or delete reference.
Task Group: D. Marek (PM), J. Ball
Meeting Action: A task group was formed to work on this item.

Item Number: 17-127 NBIC Location: Part 4, 2.4.4.1 and Part 1, 3.9.4.1 Attachment H
General Description: rewrite to state "Temperature and pressure relief valves shall be installed by either the manufacturer or the equipment installer before a water heater is placed in operation."
Task Group: None assigned.
Meeting Action: Mr. Beirne presented a proposal. A motion was made and seconded to accept the proposal. After discussion, a vote was taken and the motion carried unanimously. This item was forwarded to the sub-committee for action.

Item Number: 17-128 NBIC Location: Part 4, 2.4.4.3 and Part 1, 3.9.4.3 No Attachment
General Description: allows Y-base to be used while 2.4.1.6 a) prohibits. This appears to be a conflict.
Task Group: B. Nutter (PM), S. Irvin
Meeting Action: A task group was formed to work on this item.

Item Number: 17-129	NBIC Location: Part 4, 2.5.3 a) and Part 1, 4.5.3 a)	No Attachment
General Description: should allow installation of PRD in upstream piping to be consistent with Section VIII		
Task Group: None assigned.		
Meeting Action: A motion was made and seconded to close this item with no action and combine this item with NB15-0315. After discussion, a vote was taken and the motion carried unanimously. This item was forwarded to the sub-committee for action.		

Item Number: 17-130	NBIC Location: Part 4, 2.5.6 f) and Part 1, 4.5.6 f)	Attachment J
General Description: This could just point to safe point of discharge since we have a definition		
Task Group: None assigned.		
Meeting Action: Mr. Beirne presented a proposal. A motion was made and seconded to accept the proposal. After discussion, a vote was taken and the motion carried unanimously. This item was forwarded to the sub-committee for action.		

Item Number: 17-131	NBIC Location: Part 4, 2.5.7 a) and Part 1, 4.7.3 a)	No Attachment
General Description: Review overpressure protection requirements for hot water storage tanks that exceed 160 psi.		
Task Group: J. Ball (PM)		
Meeting Action: A task group was formed to work on this item.		

Item Number: 17-132	NBIC Location: Part 4, 3.2.6 and Part 2, 2.5.8	No Attachment
General Description: Paragraph 3.2.6 can be put into tabular format.		
Task Group: None assigned.		
Meeting Action: Mr. Beirne presented a proposal as a progress report and indicated that it will be letter balloted after the meeting so that the SG members can have ample time to look at the proposal in detail and vote on it.		

8. New Business

Item Number: 17-149	NBIC Location: Part 4, 3.2.5.2 a)	No Attachment
General Description: In NBIC Part 4, 3.2.5.2 and Part 2, 2.5.7.2 a), does the phrase “a qualified organization accredited by the National Board” also include a National Board T/O Certificate Holder?		
Task Group: None assigned.		
Meeting Action: Mr. Beirne presented a proposal. A motion was made and seconded to accept the proposal. After discussion, the inquirer withdrew the request for interpretation and the item was closed.		

9. Presentations

- None

10. Future Meetings

January 9, 2018 – New Orleans, LA

July 17, 2018 – Columbus, Ohio

11. Adjournment

A motion was made, seconded, voted on, and unanimously passed to adjourn the meeting at approximately 10:30 AM on July 20, 2017.

Respectfully Submitted,

Thomas P. Beirne, P.E.

Secretary, NBIC Subcommittee Pressure Relief Devices

pc: D. Douin

D. Cook

B. Besserman