

Date Distributed: July 28, 2017



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

**NATIONAL BOARD
SUBCOMMITTEE
PRESSURE RELIEF DEVICES**

MINUTES

Meeting of July 19, 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 10:45 AM on Tuesday July 19, 2017 by Chair Sid Cammeresi.

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
Joseph Ball
Alfred Donaldson
Emile Tezzo*
Austin Hynson
Mac McCaffrey
Junior Little
Ken Jones
Scott Artrip
Tom Tarbay

Dowco Valve Company
National Board
Baker Hughes
Emerson
Quality Valve
Quality Valve
Eastman Chemical
Eastman Chemical
Eastman Chemical
TRT Consultants

*Alternate for R.W. Donalson

2. Announcements

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

3. Adoption of the Agenda

The agenda dated June 29, 2017 was presented. The motion was unanimously approved.

4. Approval of Minutes

It was moved and seconded to approve the minutes of the January 2017 meeting of the Subcommittee on Pressure Relief Devices. The motion was unanimously approved.

5. Review of the Roster

a. Nominations

- There are no applications for membership to SC PRD.

b. Reappointments

- Raymond McCaffrey—SC PRD. Mr. McCaffrey indicated he is interested in continuing his membership. This item is on the Main Committee agenda for action.

c. Resignations

- None

d. Officer Selection

- SG PRD Chair—Mr. Kim Beise was recommended by the SG PRD to be appointed Chair. A motion was made and seconded. After discussion, a vote was taken to appoint Mr. Beise Chair of SG PRD. The vote was unanimous in favor of appointing Mr. Beise.
- SG PRD Vice Chair—Mr. Daniel Marek was recommended by the SG PRD for Vice Chair. A motion was made and seconded. After discussion, a vote was taken to appoint Mr. Marek Vice Chair of SG PRD. The vote was unanimous in favor of appointing Mr. Marek.

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 in-service 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 Mr. Cox after the SG PRD meeting. A motion was made and seconded to accept the updated proposal. After further discussion a vote was taken with unanimous acceptance. This item is forwarded onto the Main Committee for action.		
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 Main 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 Main 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)	No Attachment
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 revision was made to the proposal and will be sent back to the SG PRD for letter ballot.		

Item Number: 17-121	NBIC Location: Part 4, 2.2.10 e), h) and Part 1 2.9.6 e),h)	Attachment D
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 and minor revision to proposal, a vote was taken and the motion carried unanimously with the exception on one negative (Cox). This item was forwarded to the Main 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 E
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 Main 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 Main Committee for action.		

Item Number: 17-125	NBIC Location: Part 4, 2.4.2 and Part 1, 3.9.2	Attachment F
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 Main 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 G
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 Main 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 Main Committee for action.

Item Number: 17-130 NBIC Location: Part 4,2.5.6 f) and Part 1, 4.5.6 f) Attachment H
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 Main 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

- None
-

9. Presentations

- None

10. Future Meetings

January 10, 2018 – New Orleans, LA
July 18, 2018 – Columbus, Ohio

11. Adjournment

A motion was made, seconded, voted on, and unanimously passed to adjourn the meeting at approximately 2:45 PM.

Respectfully Submitted,

Thomas P. Beirne, P.E.

Secretary, NBIC Subcommittee Pressure Relief Devices

pc: D. Douin

D. Cook

B. Besserman