



*THE NATIONAL BOARD
OF BOILER AND PRESSURE VESSEL INSPECTORS*

NATIONAL BOARD INSPECTION CODE SUBCOMMITTEE PRESSURE RELIEF DEVICES

AGENDA

Meeting of July 13th, 2022
Indianapolis, IN

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 Chair will call the meeting to order at 8:00 AM Eastern Time. For those attending in person, the meeting will be held in City Way Gallery on the first floor of the hotel.

2. Announcements

- The National Board will be hosting a reception on Wednesday evening from 6:30pm to 8:30pm in City Way Gallery.
- The National Board will be hosting breakfast and lunch on Thursday. Breakfast will be served from 7:00am to 8:00am, and lunch will be served from 11:30am to 12:30pm. Both meals will be served at the hotel in Market Table.
- This meeting is the last at which items can be approved for inclusion in the 2023 NBIC edition.

3. Adoption of the Agenda

4. Approval of Minutes from the January 19th, 2022 Meeting

The minutes from the January 2022 meeting can be found on the Committee Information page under the Inspection Code tab on the National Board's website.

5. Review of the Roster ([Attachment Page 1](#))

a. Nominations

- i. Mr. David Sullivan and Mr. Eben Creaser (Jurisdictional Authorities) have expressed interest in becoming a member of Subgroup PRD.

b. Reappointments

- i. Mr. Prakash Dhobi, Mr. Alfred Donaldson, and Mr. Thomas Tarbay's Subgroup PRD memberships are set to expire prior to the January 2023 meeting.

c. Officer Appointments

- i. An anonymous survey was sent out to the Subcommittee to appoint a new Vice Chair. After the results were tallied, it was determined that Adam Renaldo would be nominated to Main Committee for appointment as the SC PRD Vice Chair.

6. Interpretation Requests

None.

7. Action Items

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, J. Wolf, D. Schirmer		
January 2022 Meeting Action: Comments and negatives received from the letter ballot to subcommittee PRD and Installation will be responded to by the task group and revised proposal recirculated.		
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, R. McCaffrey, Jay Simms, C. Bear, C. Chernisky		
January 2022 Meeting Action: Task group is working on responses to the comments received from the letter ballot and revise proposal accordingly.		
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		
January Meeting Action: Work continues on this item. Part 4 text complete, will need to work on Part 1 text. Possible letter ballot to SG between meetings.		
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, J. Ball, R. Donaldson		
January 2022 Meeting Action: Work continues on this item. Item maybe reopened in ASME.		
Item Number: 19-37	NBIC Location: Part 4, 4.3.1 c) 4)	No Attachment
General Description: Origin of Replacement Parts for Pressure Relief Devices		
Task Group: A. Cox (PM), T. Patel, P. Dhobi, J. Simms		
January 2022 Meeting Action: Work continues on this item. Should have proposal ready for letter ballot between meetings.		

Item Number: 19-83	NBIC Location: Part 4, Part 1	No attachment
<p>General Description: Address alternate pressure relief valve mounting permitted by ASME CC2887-1.</p> <p>Task Group: D. Marek (PM), T. Patel, J. Ball</p> <p>January 2022 Meeting Action: The proposal was balloted to Subcommittee Installation and received three disapproval votes. The task group will respond to the negatives and if necessary revise and recirculate the proposal.</p>		
Item Number: 20-85	NBIC Location: Part 4, 3.2.6	No attachment
<p>General Description: Add language to Part 4, 3.2.6 to define test intervals for thermal fluid heaters for PRD's</p> <p>Subgroup: PRD</p> <p>Task Group: B. Nutter (PM), T. Patel, D. Schirmer, J. Wolf</p> <p>Explanation of Need: Need to align Part 4 language with work done under Item 19-88.</p> <p>January 2022 Meeting Action: Work continues on this item.</p>		
Item Number: 21-08	NBIC Location: Part 4, S4.4	No attachment
<p>General Description: Additional guidance for tank vent repairs</p> <p>Subgroup: PRD</p> <p>Task Group: D. DeMichael (PM), B. Donaldson, B. Nutter, K. Beise, J. Grace</p> <p>Explanation of Need: The recently approved S4.4, "Weight Loaded Vents," (NB12-0901) provided new guidance for tank vent repairs. Several additional topics need to be addressed to enhance the guidance. These topics include: 1) Suggested test equipment and configuration for the prescribed tank vent testing. 2) Minimum requirements for replacement parts, 3) Guidance for painting tank vent components.</p> <p>January 2022 Meeting Action: Work continues on this item.</p>		
Item Number: 21-18	NBIC Location: Part 4, 4.6.4	No Attachment
<p>General Description: Pressure tests for pressure relief valve parts.</p> <p>Subgroup: PRD</p> <p>Task Group: J. Simms (PM), T. Tarbay, A. Donaldson, D. DeMichael, T. Patel, B. Nutter</p> <p>Explanation of Need: Pressure relief valve manufacturers must produce valve parts that comply with ASME Code requirements to be able to apply the ASME Symbol Stamp and Designator to a new valve. These parts are the same that are sold as repair parts. The logistic issues to fabricate and maintain an inventory of spare parts not complying with ASME Code requirements is significant versus producing all parts in compliance with code. Consequently, why have a pressure test requirement for parts purchased from the valve manufacturer for those certificate holders who chose to buy parts produced by the manufacturer?</p> <p>January 2022 Meeting Action: Work continues on this item.</p>		

Item Number: 21-36	NBIC Location: Part 4, 3.3.3.4 i)	No Attachment
General Description: Add Test Details to NBIC Part 4, 3.3.3.4 i) Valve Adjustment and Sealing		
Subgroup: PRD		
Task Group: D. Marek (PM), A. Cox, P. Dhobi, T. Patel		
Explanation of Need: There is no reference in the T/O requirements for Set Pressure Testing, use of proper Test Fluid or Seat Tightness unless and until a minor adjustment is required. This is surely the intent, but it is not clearly specified as it is in the current VR requirements.		
January 2022 Meeting Action: A task group was formed to work on this item.		

Item Number: 21-59	NBIC Location: Part 4, 3.2.6.1	No Attachment
General Description: Deferral of inspection due dates (pressure relieving devices NBIC PART IV)		
Subgroup: PRD		
Task Group: None assigned		
Explanation of Need: Since the code has clearly recommended inspection frequency intervals for the different classes of pressure relief devices, it shall have the requirements related to the deferral of due dates. The inspection due date deferrals are usually not considered but in exceptional cases where operating plant may not be able to handover the device due to some practical limitations or the turnaround frequency of the plant is extended due to stakeholders' requirements etc. The owner is usually ensuring that a deferment is not posing any significant EHSS risk by proper risk analysis but a clarity from code on the minimum or maximum duration the device can be deferred will add a great value in decision making. There are some codes which have added deferment clauses such as API 510 but the NBIC is always having precedence in this subject and shall have statement added to its code.		
January 2022 Meeting Action: After brief discussion, it was requested that NB Staff contact the inquirer directly to determine specifically what is needed to be changed in the code to resolve his issue.		

Item Number: 21-61	NBIC Location: Part 4, 3.3.4	No Attachment
General Description: Audit Requirements for the T/O holder		
Subgroup: PRD		
Task Group: A. Donaldson (PM), A. Cox, J. Simms, P. Dhobi, T. Tarbay, D. Marek		
Explanation of Need: Opened as a result of a Subgroup PRD ballot comment from item 21-05 (Shop audits for VR certificate holders). The comment recommended adding requirements specifically for organizations that are T/O only.		
January 2022 Meeting Action: A task group was formed to work on this item.		

Item Number: 21-63	NBIC Location: Part 4, 4.7.2	No attachment
<p>General Description: Require unique identifier marked on Pilots in addition to main valves</p> <p>Subgroup: PRD</p> <p>Task Group: B. Donaldson (PM), B. Nutter, D. Gonzales, J. Simms, T. Patel, D. Marek, T. Beirne</p> <p>Explanation of Need: The 2021 Edition of ASME BPVC Section XIII requires pilots of pilot operated pressure relief valves be marked with a unique identifier that matches the main valve (Section I has similar approved text for the 2023 Edition). This should be addressed for VR nameplates as well since pilots can be replaced as VR operation.</p> <p>January 2022 Meeting Action: A task group was formed to work on this item.</p>		

Item Number: 21-84	NBIC Location: Part 4, 4.7.4	No Attachment
<p>General Description: Update duplicate nameplate marking requirements to reflect new Section XIII</p> <p>Subgroup: PRD</p> <p>Task Group: A. Cox (PM), D. Sullivan, D. Marek, P. Dhobi, B. Nutter, T. Beirne</p> <p>Explanation of Need: With the new publication of Section XIII, valves that were previously constructed to Section IV or VIII Div. 1 are now constructed to Section XIII. The HV and UV designators still indicate the service, however.</p> <p>January 2022 Meeting Action: A task group was formed to work on this item.</p>		

8. New Business

Item Number: 22-08	NBIC Location: Part 4, 2.4.1.6 & 2.4.4.2; Part 1, 3.9.1.6 & 3.9.4.2	No attachment
<p>General Description: Review and improve guidance for T&P valve installation relating to probe.</p> <p>Subgroup: PRD</p> <p>Task Group: None assigned.</p> <p>Explanation of Need: Existing text refers to location of valve connection and does not give guidance that the temperature probe needs to be located in the hottest water in the tank for the valve to actuate at the specified temperature.</p> <p>July 2022 Meeting Action:</p>		

Item Number: 22-09	NBIC Location: Part 4, 4.6.1	Attachment Page 2
<p>General Description: Add language to NBIC Part for valves manufactured to Code Case 2787</p> <p>Subgroup: PRD</p> <p>Task Group: None assigned.</p> <p>Explanation of Need: There are no requirements to address valve repairs that were manufactured or assembled to Code Case 2787 (use of more than one certified capacity on the pressure relief valve or the nameplate).</p> <p>July 2022 Meeting Action:</p>		
Item Number: 22-15	NBIC Location: Part 4, 2.4.5 and Part 1, 3.9.5	No attachment
<p>General Description: What is the meaning of "service limitations" as used in Part 4, 2.4.5?</p> <p>Subgroup: PRD</p> <p>Task Group: None assigned.</p> <p>Explanation of Need: Part 4, 2.4.5 (also Part 1, 3.9.5) references "service limitations set forth in Part 1, 3.2, Definitions" when establishing pressure relief requirements for tanks and heat exchangers. Part 1, 3.2 points readers to the glossary. As "service limitations" is not itself defined within the glossary, and the term does not appear elsewhere in the code, what specific service limitations are being referenced?</p> <p>July 2022 Meeting Action:</p>		
Item Number: 22-16	NBIC Location: Part 4, 2.4.4 and Part 1, 3.9.4	No attachment
<p>General Description: Allow the use of pressure relief valves on potable water heaters.</p> <p>Subgroup: PRD</p> <p>Task Group: None assigned.</p> <p>Explanation of Need: ASME Section IV, Part HLW-800.1 allows the use of pressure relief valves in place of temperature and pressure relief valves on potable water heaters. NBIC Parts 1 and 4 specifically require temperature and pressure relief valves, which is not consistent with the code of construction. Some manufacturers are shipping HLW stamped potable water heaters with pressure relief valves. Often the physical construction of these units is such that a temperature and pressure relief valve cannot be accommodated.</p> <p>July 2022 Meeting Action:</p>		

9. Presentations

10. Future Meetings

- January 2023 – Charleston, SC
- July 2023 – TBD

11. Adjournment

Respectfully Submitted,

Thomas P. Beirne, P.E.
Secretary, NBIC Subcommittee Pressure Relief Devices
pc: J. Amato
G. Galanes
J. Ellis

Subcommittee Pressure Relief Devices

Last Name	First Name	Interest Category	Role	Exp. Date	More
Brodeur	Marianne	National Board Certificate Holders	Chair	01/30/2025	Details
Beirne	Thomas		Secretary	01/30/2099	Details
Beise	Kim	National Board Certificate Holders	Member	01/30/2023	Details
Cox	J. Alton	General Interest	Member	01/30/2025	Details
Creaser	Eben	Jurisdictional Authorities	Member	06/29/2025	Details
DeMichael	Denis	Users	Member	07/30/2024	Details
Dhobi	Prakash	National Board Certificate Holders	Member	07/30/2023	Details
Donaldson	Alfred	Manufacturers	Member	01/30/2023	Details
Donalson	Robert	Manufacturers	Member	07/30/2024	Details
Marek	Daniel	General Interest	Member	01/30/2025	Details
McCaffrey	Raymond	General Interest	Member	08/30/2023	Details
McHugh	David	National Board Certificate Holders	Member	01/30/2023	Details
Nutter	Brandon	National Board Certificate Holders	Member	01/30/2025	Details
Patel	Thakor	Manufacturers	Member	01/30/2025	Details
Renaldo	Adam	Users	Member	01/30/2023	Details
Schirmer	Delton	Authorized Inspection Agencies	Member	01/30/2023	Details
Simms	Jay	Manufacturers	Member	07/30/2024	Details
Sullivan	David		Member	06/29/2025	Details
Wolf	Jon	Authorized Inspection Agencies	Member	01/30/2023	Details

PROPOSED REVISION OR ADDITION

Item No. A 22-09	
Subject/Title Add language to NBIC Part for valves manufactured to Code Case 2787	
NBIC Location Part: Pressure Relief Devices & Pressure Relief Devices; Section: 4.6 & 4.6; Paragraph: 4.61 & 4.6.1a)2)	
Project Manager and Task Group	
Source (Name/Email) Robert Donalson / bob.donalson@emerson.com	
Statement of Need There are no requirements to address valve repairs that were manufactured or assembled to Code Case 2787 (use of more than one certified capacity on the pressure relief valve or the nameplate)	
Background Information Code Case 2787 was approved in 2013 to allow a manufacturer or assembler to place more than one certified capacity on the valve or nameplate provided certain requirements were met. These included specific testing and nameplate marking requirements. In addition to proposed changes to Part 4, 4.61 and 4.6.1a)2) paragraphs 3.2.5.2, 3.3.3.4i), 4.7.2b)6), and 4.7.2-a need to be reviewed.	
Existing Text	Proposed Text 4.6.1- Valves marked for steam service, or having special internal parts for steam service, shall be tested on steam. Valves marked for air, gas, or vapor service shall be tested with air or gas. Valves marked for liquid service shall be tested with water or other suitable liquid. Valves marked with more than one capacity shall be tested using one of the certified medias to be marked on the valve except steam shall be used when one of the certified media is steam. ASME Code, Section IV hot-water valves, shall be tested on water, steam, or air. 4.6.1a)2)- Response to blowdown, when required by the original code of construction; Adjustments are made in accordance with the manufacturer's recommendations

VOTE:							
COMMITTEE	Approved	Disapproved	Abstained	Not Voting	Passed	Failed	Date