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NATIONAL BOARD INSPECTION CODE SUBCOMMITTEE INSTALLATION

AGENDA

Meeting of January 10th, 2024 San Antonio, TX

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 a.m. Central Time. For those attending in person, the meeting will be held in Madero A at the hotel.

2. Introduction of Members and Visitors

3. Check for a Quorum

4. Awards/Special Recognition

5. Announcements

- This meeting marks the end of Cycle C for the 2025 NBIC edition. The committees will have until the end of the July 2024 NBIC meeting to approve items for inclusion in the 2025 NBIC.
- The National Board will be hosting a reception on Wednesday evening from 5:30 p.m. to 7:30 p.m. in Veramendi (fourth level of the hotel).
- The National Board will be hosting breakfast and lunch on Thursday in Veramendi for those attending the Main Committee meeting. Breakfast will be served from 7:00 a.m. to 8:00 a.m. and lunch will be served from 11:30 a.m. to 12:30 p.m.
- Meeting schedules, meeting room layouts, and other helpful information can be found on the National Board website under the **NBIC** tab → NBIC Meeting Information.
- Remember to add any attachments that you'd like to show during the meeting (proposals, reference documents, power points, etc.) to the NBIC file share site (nbfileshare.org) **prior to the meeting**.
 - o Note that access to the NBIC file share site is limited to committee members only.
 - o ALL power point attachments/presentations <u>must be sent to the NBIC Secretary prior to the meeting</u> for approval.
 - Contact Jonathan Ellis (nbicsecretary@nbbi.org) for any questions regarding NBIC file share
- When possible, please submit proposals in Word format showing "strike through/underline". Project Managers: please ensure any proposals containing text from the 2021 NBIC are updated to contain text from the 2023 NBIC.
- If you'd like to request a new Interpretation or Action item, this should be done on the National Board Business Center.
 - o Anyone, member or not, can request a new item.
- As a reminder, anyone who would like to become a member of a group or committee:
 - O Should attend at least two meetings prior to being put on the agenda for membership consideration. The nominee will be on the agenda for voting during their third meeting.
 - The nominee must submit the formal request along with their resume to the NBIC Secretary **PRIOR TO** the meeting. *nbicsecretary@nbbi.org*
 - o If needed, we can also create a ballot for voting on a new member between meetings.
- Thank you to everyone who registered online for this meeting. The online registration is very helpful for planning our reception, meals, room set up, etc. Please continue to use the online registration for each meeting. If you are here in person, and did not register, please visit the National Board website to register now. Registering will make sure we have an accurate count for the reception, breakfast, and lunch. It is also a good way to make sure we have the most up-to-date contact information.

6. Adoption of the Agenda

7. Approval of the Minutes of the July 12, 2023, Meeting

The minutes can be found on the NBIC Committee Information page under the NBIC tab on NBBI.org.

8. Review of Rosters

a. Membership Nominations

- Mr. Kim Black is interested in becoming a member of **Subgroup and Subcommittee Installation**, representing Manufacturers.
- Mr. Robert Smith is interested in becoming a member of **Subgroup Installation**, representing General Interest.

b. Membership Reappointments

The following **Subcommittee Installation** memberships are set to expire prior to the July 2024 meeting: Mr. Todd Creacy.

c. Officer Appointments

9. Open PRD Items Related to Installation

- NB15-0305 Create Guidelines for Installation of Overpressure Protection by System Design D.
 Marek (PM)
- NB15-0315 Review isolation valve requirements in Part 1, 4.5.6 and 5.3.6 D. DeMichael (PM)
- 19-83 Address Alternate Pressure Relief Valve Mounting Permitted by ASME CC2887-1 D. Marek (PM).
- 22-08 Review and improve guidance for T&P valve installation relating to probe.
- 22-16 Allow the use of pressure relief valves on potable water heaters.

10. Interpretations

There are no Part 1 interpretation requests to address.

11. Action Items

Item Number: 20-62NBIC Location: Part 1, 1.4.5.1No Attachment

General Description: Update the National Board Boiler Installation Report

Subgroup: SG Installation

Task Group: T. Clark (PM), E. Wiggins, R. Spiker, T. Creacy, P. Jennings, G. Tompkins, and D.

Patten.

Explanation of Need: The form has not been updated in years. The form will be part of the National Board's Jurisdictional Reporting System (JRS) which is currently under development.

July 2023 Meeting Action: Progress Report

Mr. Clark updated the group on this item. He fine-tuned some of the fields based on suggestions from the subgroup. Mark Mooney of JRS plans to have a mockup in JRS ready to review before the next meeting.

Item Number: 20-86 NBIC Location: Part 1, 2.10.1 a) No Attachment

General Description: Testing and Acceptance: Boil-out Procedure

Subgroup: SG Installation

Task Group: E. Wiggins (PM), D. Patten, S. Konopacki, and R. Spiker

Explanation of Need: This was brought to my (Mr. Eddie Wiggins) attention by Ernest Brantley. Mr. Brantley indicated during an acceptance inspection, he found boiler with excessive oil on the tubes and tube sheet after boiler was delivered and installed. He could not find any reference to boil-out to remove this extraneous material.

July 2023 Meeting Action: Progress Report

Mr. Patten added an updated proposal to the Cloud for the task group to review.

Item Number: 22-28 NBIC Location: Part 1 No Attachment

General Description: Pool Heater definition

Subgroup: SG Installation

Task Group: J. Kleiss (PM), R. Spiker, T. Creacy, and M. Byrum

Explanation of Need: The NBIC Installation and Inspection Codes do not have a definition for pool heaters. There is potential for confusion regarding which NBIC requirements, if any, should apply to pool heaters.

July 2023 Meeting Action: Progress Report

Mr. Kleiss reviewed the subgroup's discussion on adding this as a new supplement. The group briefly discussed the general parameters of NBIC supplements and different kinds of pool heaters.

Item Number: 22-32 NBIC Location: Part 1, 3.8.1.4 b) No Attachment

General Description: High pressure limit control requirements for fired jacketed steam kettles

Subgroup: SG Installation

Task Group: R. Adams (PM), D. Patten, T. Clark, and T. Creacy.

Explanation of Need: As a safeguard to over pressurizing the fired jacketed steam kettle, the pressure range of the actuated high pressure limit control should not exceed the MAWP of the vessel.

July 2023 Meeting Action: Progress Report

Mr. Clark reviewed the discussion from the subgroup meeting. They decided to add this as a new supplement and will try to add fire jacketed steam kettles as a definition in the Glossary.

Item Number: 23-52 NBIC Location: Part 1, 2.5.3.2 No Attachment

and 3.5.3

General Description: Harmonize electrical requirements for all types of boilers/water heaters

Subgroup: SG Installation

Task Group: T. Clark (PM), S. Konopacki, J. Kleiss, R. Spiker, and John Choitz

Explanation of Need: Electrical requirements for power boilers, heating boilers, and water heaters are inconsistent, particularly regarding remote emergency shutdown switches. In some cases the requirements are the same, but worded or ordered differently. In order to promote better understanding of code requirements and consistency in their application, I propose making sections 2.5.3 and 3.5.5 as uniform as possible.

July 2023 Meeting Action: Progress Report

Mr. Clark reviewed the discussion from subgroup meeting as well as the intent of this item being to harmonize where we talk about the electrical requirements of power and heating boilers.

12. New Items:

Item Number: 23-67 NBIC Location: Part 1, 4.2.2 Attachment Page 2

General Description: Pressure Gage Scale Requirements

Subgroup: SG Installation

Task Group: None assigned.

Explanation of Need: Update pressure gage requirements to reflect industry practice and common ranges. Also, to allow for the use of gage overpressure protectors, which the current wording does not. For systems with an MAWP that greatly exceeds normal operating pressure, it is sometimes necessary to use a gage with a lower scale so that the gauge reads in the middle third of its scale during normal operation. In such a situation, a gage overpressure protector is installed upstream of the gage.

January 2024 Meeting Action:

13. Future Meetings

- July 15-18, 2024 The Brown Hotel in Louisville, KY
- January 2025 TBD

13. Adjournment

Respectfully submitted,

Michelle Vance

Subcommittee Installation Secretary

Subcommittee Installation

Last Name	First Name	Interest Category	Role	Exp. Date	
Patten	Don	National Board Certificate Holders	Chair	01/30/2025	
Konopacki	Stanley	Users	Vice Chair	08/21/2026	
Vance	Michelle		Secretary	12/30/2099	
Brockman	Joe	Authorized Inspection Agencies Member		08/21/2026	
Byrum	Marvin	Authorized Inspection Agencies	Member	08/21/2026	
Clark	Tom	Jurisdictional Authorities	Member	01/30/2025	
Creacy	Todd	Authorized Inspection Agencies	Member	01/30/2024	
Downs	James	Manufacturers	Member	07/30/2025	
Jennings	Patrick	Authorized Inspection Agencies	Member	07/30/2024	
Richards	H. Michael	General Interest	Member	07/30/2024	
Spiker	Ronald	Jurisdictional Authorities	Member	07/30/2024	
Wadkinson	Melissa	Manufacturers	Member	07/30/2024	
Wiggins	Edward	Jurisdictional Authorities	Member	08/21/2026	

PROPOSED REVISION OR ADDITION

Item No.							
Adam Renaldo / adam.renaldo@linde.com							
Update pressure gage requirements to reflect industry practice and common ranges. Also, to allow for the use of gage overpressure protectors, which the current wording does not. For systems with an MAWP that greatly exceeds normal operating pressure, it is sometimes necessary to use a gage with a lower scale so that the gauge reads in the middle third of its scale during normal operation. In such a situation, a gage overpressure protector is installed upstream of the gage.							
00 psig gage. There are tens of thousands of such vessels that do not psig receiver vessels with 0-3000 psig gages that do not comply with ssure at 130% of full scale. For a typical relief valve with 10% allowable ressure of the gage would not be exceeded. Having the scale 20%							
Proposed Text							
4.4.2 PRESSURE INDICATING DEVICES The need for pressure indicating devices should be considered in the design of the pressure vessel. When required, the scale on the dial of the pressure gage shall be at least: a) 25% above the highest set pressure of the pressure relief device, for set pressures below 500 psig. b) 20% above the highest set pressure of the pressure relief device, for set pressures of 500 psig or greater c) The set pressure of the upstream gage overpressure protector, if installed, and when required, the scale on the dial of the pressure gage shall be at least 25% above the highest set pressure of the pressure relief_device							

VOTE:						
Approved	Disapproved	Abstained	Not Voting	Passed	Failed	Date
	Approved		Approved Disapproved Abstained			