



*THE NATIONAL BOARD
OF BOILER AND PRESSURE VESSEL INSPECTORS*

NATIONAL BOARD INSPECTION CODE SUBGROUP INSTALLATION

AGENDA

Meeting of January 13, 2026
New Orleans, LA

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 will be called to order at 8:00 a.m. Central Time in Canal BC on the 1st floor of 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 2027 NBIC edition.
- The National Board will be hosting a reception on Wednesday evening from 5:30 p.m. to 7:30 p.m. at The Hard Rock Café on Bourbon Street.
- The National Board will be hosting breakfast and lunch on Thursday for those attending the Main Committee meeting. Breakfast will be served from 7:00 a.m. to 8:00 a.m. in the Atrium on the 2nd floor of the hotel, and lunch will be served at the same location 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, powerpoints, etc.) to the NBIC SharePoint site (nationalboard.sharepoint.com/sites/NBIC) **prior to the meeting.**
 - Note that access to the NBIC SharePoint site is limited to committee members only.
 - ALL powerpoint attachments/presentations must be sent to the NBIC Secretary for approval prior to the meeting.
 - Contact Jonathan Ellis (nbicsecretary@nbbi.org) for any questions regarding NBIC SharePoint access.
- When possible, please submit proposals in Word format showing "strike through/underline." Project Managers: please ensure any proposals containing text from previous NBIC editions are updated with text from the most current edition.
- If you'd like to request a new Interpretation or Action item, do so on the National Board Business Center.
 - 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:
 - 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
 - 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 setup, etc. It is also a good way to make sure we have the most up-to-date contact information. Please continue to use the online registration for each meeting.

6. Adoption of the Agenda

7. Approval of the Minutes of July 2025 Meeting

The minutes from the July 2025 meeting can be found on the NBIC Committee information page on the National Board's website, nbbi.org.

8. Review of Rosters

a. Membership Nominations

Mr. Ed Verderose (Manufacturers) and Mr. Steve Schneeberger (AIAs) are interested in becoming a member of the Subgroup.

b. Membership Reappointments

The following SG Installation memberships are up for reappointment: Mr. Todd Creacy, Mr. Matt Downs, and Mr. Stanley Konopacki.

c. Officer Appointments

9. Other Committee Items Related to Installation

a. R&A

- i. **Item 24-18** – Definition of Controlled Fill (P. Gilston as PM)

b. PRD

- i. **Item NB15-0315** – Review isolation valve requirements in Part 1, 4.5.6 and 5.3.6 – D. DeMichael (PM).
- ii. **Item 19-83** – Address Alternate Pressure Relief Valve Mounting Permitted by ASME CC2887-1 – D. Marek (PM).
- iii. **Item 24-91** – Require means to prevent safety valve discharge piping blockage for LCDSV (Part 4).

10. Interpretations

Item Number: 25-46	NBIC Location: Part 1, 2.8.4
General Description: Pressure Limit Control Functionality and Construction	
Subgroup: SG Installation	
Task Group: None assigned.	
Explanation of Need: Power boilers are manufactured with many different maximum allowable working pressures, yet there is not a similar variety of pressure controls to match. The current wording in NBIC does not make it clear if “constructed to prevent a setting” means it must be impossible for a pressure control to be set to a pressure above the boiler’s MAWP, or if a non-permanent limitation device (such as a set screw, mechanical stop, electronic limit, locking device, or tamper seal) may be used to ensure the control is not inadvertently set to a pressure above MAWP.	
January 2026 Meeting Action:	

Item Number: 25-56	NBIC Location: Part 1, 1.6.4
General Description: Ladders and Runways	
Subgroup: SG Installation	
Task Group: None assigned.	
Explanation of Need: There is overlap between the NBIC and OSHA regarding ladders and runways and there needs to be guidance for when these conflict with each other.	
January 2026 Meeting Action:	

Item Number: 25-67	NBIC Location: Part 1, 3.8.2.4 c)
<p>General Description: Forced Flow Steam Generator low-water fuel cutoff</p> <p>Subgroup: SG Installation</p> <p>Task Group: None assigned.</p> <p>Explanation of Need: There is overlap between the NBIC and OSHA regarding ladders and runways and there needs to be guidance for when these conflict with each other.</p>	
<p>January 2026 Meeting Action:</p>	

11. Action Items

Item Number: 22-28	NBIC Location: Part 1
<p>General Description: Pool Heater requirements and definition</p> <p>Subgroup: SG Installation</p> <p>Task Group: J. Kleiss (PM), R. Spiker, T. Creacy, and M. Byrum</p> <p>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.</p>	
<p>July 2025 Meeting Action: Progress Report</p> <p>This item was letter balloted and received a few comments. Those comments have been addressed, and a new proposal is ready letter ballot and will be issued between meetings.</p> <p>Update: A proposal was balloted to and approved by the Subgroup prior to this meeting.</p>	

Item Number: 23-67	NBIC Location: Part 1, 4.2.2
<p>General Description: Pressure Gage Scale Requirements</p> <p>Subgroup: SG Installation</p> <p>Task Group: None assigned.</p> <p>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.</p>	
<p>July 2025 Meeting Update:</p> <p>This item was mistakenly left off the July meeting agenda.</p>	

Item Number: 24-05	NBIC Location: Part 1, New Supplement	
<p>General Description: Add Heat Pump Water Heater & Heat Pump Hydronic Heater Supplement</p> <p>Subgroup: SG Installation</p> <p>Task Group: J. Kleiss (PM), Bryan Ahee, R. Troutt, T. Creacy, M. Watkinson, J. Mirjalali</p> <p>Explanation of Need: Heat pump water heating and hydronic heating are growing in prevalence. Guidance for installation and inspection of these products is needed.</p>		
<p>July 2025 Meeting Action: Progress Report</p> <p>Jeff Kleiss will be opening a new item to handle the definitions in proposal that was letter balloted between meetings and will be revising the proposal based on comments received. Item will be expanded to look at requirements for all electric boilers. New task group members were added.</p>		

Item Number: 24-26	NBIC Location: Part 1, 3.7.8	
<p>General Description: NBIC Requirements for ASME Modular Water Heaters</p> <p>Subgroup: SG Installation</p> <p>Task Group: R. Spiker (PM), M. Byrum, J. Kleiss</p> <p>Explanation of Need: ASME Section IV added requirements in the 2023 Edition for modular water heaters. The NBIC currently includes requirements for modular steam-heating and hot-water heating boilers, but not for modular water heaters.</p>		
<p>July 2025 Meeting Action: Progress Report</p> <p>This item is ready for letter ballot between meetings</p> <p>Update: A proposal was balloted to the Subgroup, but the ballot failed with 8 approval votes and 7 disapproval votes.</p>		

Item Number: 24-56	NBIC Location: Part 1, S3.6.1	
<p>General Description: LCDSV Systems: Add Table and Figure</p> <p>Subgroup: SG Installation</p> <p>Task Group: M. Byrum (PM), R. Black</p> <p>Explanation of Need: In accordance with the NBIC Policy For Metrication, metric units need to be shown alongside US customary units. Table S3.6.1 and Figure S3.6.1-b both show only US customary units. I recommend adding a Table S3.6.1M and Figure S3.6.1-bM to show metric units. I've also included some additional editorial recommendations.</p>		
<p>January 2025 Meeting Action: Proposal</p> <p>During the July 2024 Main Committee meeting, the Committee asked that this item be put on hold until a similar section in Part 2 could be updated. SG/SC Inspection needs action item to work on Part 2 S12.7.</p>		

Item Number: 24-102	NBIC Location: Part 1, 1.6.9	
<p>General Description: Strengthen requirements for Carbon monoxide monitoring</p> <p>Subgroup: SG Installation</p> <p>Task Group: Jim Byrum (PM) and all members SG Installation, Steve Schneeberger, Bryan Ahee</p> <p>Explanation of Need: Approximately 50 to 75 percent of the Chief Boiler Inspectors have requested some version of the proposed text above to be included in the NBIC Part 1. Since this has not happened, in many jurisdictions the Chief Inspector has had to include requirements for interlocking Carbon Monoxide detectors with boilers to secure the burners when the detector senses CO. The NBIC is a Health and Safety Code and therefore should provide requirements that prevent the many injuries and deaths the Chief Boiler Inspectors across the U.S. have had to investigate.</p> <p>July 2025 Meeting Action: A motion was made and seconded to accept a draft proposal. During the discussion the Chair informed Mr. Troutt he was out of order and Mr. Troutt continued the discussion after the Chair had asked him to allow the committee to discuss without interruption. After discussion the motion was withdrawn and with the draft being revised and letter balloted between meetings.</p> <p>Update: A proposal was balloted to the Subgroup, but the ballot failed with 4 approval votes, 9 disapproval votes, and 1 abstention.</p>		

Item Number: 25-03	NBIC Location: Part 1, 1.6.1, 2.7.5 & 3.7.7.1	
<p>General Description: Create uniformity between sections on requirements for drains and blowoff pipes</p> <p>Subgroup: SG Installation</p> <p>Task Group: T. Clark (PM), J. Choitz, R. Spiker, R. Adams</p> <p>Explanation of Need: Create uniformity between sections on requirements for drains and blowoff pipes</p> <p>January 2025 Meeting Action: Progress Report</p> <p>Work continues on this item. Added additional paragraph reference to NBIC Location. Should have a proposal ready for letter ballot between meetings.</p> <p>Update: A proposal was balloted to and approved by the Subgroup prior to this meeting.</p>		

Item Number: 25-07	NBIC Location: Part 1, S5.7.6 h)	
<p>General Description: Organic fluid relief valves are installed with discharge to 55-gallon drum</p> <p>Subgroup: SG Installation</p> <p>Task Group: D. Patten (PM)</p> <p>Submitted by: V. Scarcella</p> <p>Explanation of Need: A 55-gallon drum is not designed for the temperatures or pressures of a relief valve discharge</p>		
<p>July 2025 Meeting Action: A motion was made and seconded to accept the attached proposal. After discussion, a vote was taken and the motion unanimously passed with the exception of M. Wadkinson who was not voting.</p>		

Item Number: 25-24	NBIC Location: Part 1, 3.8.1.5 and 3.8.2.4	
<p>General Description: Clearly state no time delay on the flow switches on a loss of flow.</p> <p>Subgroup: SG Installation</p> <p>Task Group: H. Berny (PM), S. Konopacki, J. Choitz, J. Byrum, J. Kleiss</p> <p>Submitted by: T. Bolden</p> <p>Explanation of Need: One of the primary causes of boiler failure is a low water condition. Time delays in testing these safety controls can complicate their assessment and will not mitigate the failure rates associated with low water conditions. Note this also needs to apply to flow switches on forced flow units.</p>		
<p>July 2025 Meeting Action:</p> <p>A task group was formed to work on this item.</p>		

12. New Items:

Item Number: 25-45	NBIC Location: Part 1, 3.8.2.3	
General Description: Limiting Temperature Controls to Max Allowable Temperature of the Boiler		
Subgroup: SG Installation		
Task Group: None assigned.		
Submitted by: T. Clark		
Explanation of Need: Additional language is needed to ensure that the temperature controls for hot water heating and supply boilers cannot be set to a temperature above the maximum allowable temperature of the boiler. Similar language exists in ASME Section IV and CSD-1, but is missing from NBIC Part 1.		
January 2026 Meeting Action:		

Item Number: 25-49	NBIC Location: Part 1, 9.1	
General Description: Definition of Heat Pump		
Subgroup: SG Installation		
Task Group: None assigned.		
Submitted by: J. Kleiss		
Explanation of Need: Heat pump water heaters and heat pump hydronic heaters are in use in the USA and will become more widely used. This is an initial step to incorporating requirements for these devices. Item 24-05 proposes addition of a supplement with guidance for heat pump water heaters.		
January 2026 Meeting Action:		

Item Number: 25-65	NBIC Location: Part 1, 3.7.9.1	
<p>General Description: Code of Construction for Expansion Tanks</p> <p>Subgroup: SG Installation</p> <p>Task Group: None assigned.</p> <p>Submitted by: T. Clark</p> <p>Explanation of Need: The NBIC does not and should not determine when a vessel is required to be built to a code of construction. That determination is made by the jurisdiction.</p>		
January 2026 Meeting Action:		

Item Number: 25-78	NBIC Location: Part 1, 2.8.6	
<p>General Description: Flow or Temperature Sensing Devices for Forced Circulation Power Boilers</p> <p>Subgroup: SG Installation</p> <p>Task Group: None assigned.</p> <p>Submitted by: T. Clark</p> <p>Explanation of Need: ASME CSD-1 allows the use of a flow or sensing device or a combination of a LWCO and a temperature sensing device to detect low-water conditions in boilers with forced circulation. While NBIC Part 1 makes such an allowance for hot water boilers, no such requirement exists for power boilers.</p>		
January 2026 Meeting Action:		

13. Future Meetings

July 13-16, 2026 – Salt Lake City, UT

January 11-14, 2027 – Nashville, TN

14. Adjournment

Respectfully submitted,

Thomas P. Beirne
Subgroup Installation Secretary