



THE NATIONAL BOARD
OF BOILER AND PRESSURE VESSEL INSPECTORS

Date Distributed: July 29, 2025

NATIONAL BOARD INSPECTION CODE SUBGROUP INSPECTION

MINUTES

Meeting of July 8, 2025
Cincinnati, OH

*These minutes are subject to approval and are for the committee use only.
They are not to be duplicated or quoted for other than committee use.*

The National Board of Boiler & Pressure Vessel Inspectors
1055 Crupper Avenue
Columbus, Ohio 43229-1183
Phone: (614)888-8320

1. Call to Order

Mr. James Roberts, Chair of the Inspection Subgroup (SG), called the meeting to order at 8:01 a.m. Eastern Standard Time, in Madisonville A on the 4th floor of the hotel.

2. Introduction of Members and Visitors

All members and visitors in person and online stated their name and their company. All members and visitors are noted on the attendance sheets. (**Attachment Pages 1-2**)

3. Check for a Quorum (51% - 14 of 26 needed)

With 23 of 26 members in attendance, both in person and online, a quorum was established.

4. Announcements

Ms. Metzmaier gave announcements to the SG. (**Attachment Page 3**)

5. Awards/Special Recognition

- Brent Ray – 5 years on SG Inspection
- Vinny Scarcella – 5 years on SG Inspection

Mr. Roberts presented Mr. Ray and Mr. Scarcella with their 5-year pins.

6. Adoption of the Agenda

- Add Interpretation Item 25-39 (Replacement of Stamped Data)
- Add item 25-43 regarding NB-4, 6, & 7 Forms (From Roberts/Mooney)

A motion was made to adopt the agenda, and the motion was seconded. The agenda was then revised to add the above two items. The motioner then revised their motion to adopt the revised agenda. The motion was seconded and unanimously approved.

7. Approval of the Minutes of the January 2025 Meeting

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

A motion was made to approve the minutes from the January 2025 meeting. The motion was seconded and unanimously approved.

8. Review of Rosters

a. Membership Nominations

Mr. Wil Griffith (Authorized Inspection Agency - AIA) and Mr. James Bell (Manufacturer) are interested in becoming members of the SG. Both nominees attended the last two meetings.

Mr. Griffith & Mr. Bell spoke to the SG about their work history and spoke to why they would like to become a member. The nominees left the meeting, and the SG had a discussion regarding their nominations. Mr. Horbaczewski spoke to the group and asked if anyone wanted to step down from the SG and remain only on the SC to make more room for new members on the SG. He also stated he would like to see more participation from members of the SG who haven't been a member of many task groups (TG) or have never been a PM of a TG. The SG discussed both nominees and discussed the balance of interests in the SG.

Mr. Scarcella & Mr. Horbaczewski both stated they would step down from the SG and remain only on the SC.

A motion was made to accept Mr. Griffith's nomination to the SG with an interest category of AIA. The motion was seconded and **unanimously approved**.

A motion was made to accept Mr. Bell's nomination to the SG with an interest category of Manufacturer. The motion was seconded and **unanimously approved**.

b. Membership Reappointments

The following Subgroup members are up for reappointment: Mr. Pat Polick and Mr. David Rose.

Mr. Polick spoke to the group and stated he will let his term on SG run out, but he will remain on the SC.

NOTE: Mr. Polick’s reappointment was readdressed later in the SG meeting. The action for his reappointment is noted below.

Mr. Rose was not present. The group has asked that an email be sent to make sure he wants to continue his membership on the SG. If he states that he would like to be reappointed, they would like a letter ballot (LB) to go out to vote for his reappointment.

c. Officer Appointments - None

9. Open Items Related to Inspection

a. PRD

- i. **Item 24-91** – Require means to prevent safety valve discharge piping blockage for LCDSV (Part 4)

The SG had no information on this item. We will wait to see what the PRD SG has to propose.

b. R&A

- i. **Item 21-53** – Post repair inspection of weld repairs to CSEF steels. (P. Gilston as PM)

Mr. Horbaczewski gave a report on this item. He stated this item was discussed at the 2/3 meeting and no resolution has been made.

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

NOTE: This is a definition that will be in all parts, and all parts must agree.

Mr. Horbaczewski stated this item was not discussed during the 2/3 meeting.

10. Interpretations

Item Number: 25-02	NBIC Location: 2023 NBIC, Part 2, 4.4.7.3 and 4.5.3 b)	No Attachment
General Description: Overriding Part 2 Inspection Requirements with RBI Program		
Subgroup: Inspection		
Task Group: D. Graf (PM), J. Beauregard, J. Sowinski, J. Mangas, L. Burton, B. Ray		
Submitted by: Riley Collins		
Explanation of Need: There needs to be some clarity on whether an RBI program has the ability to override some of the inspection requirements listed in Part 2 as long as all jurisdictional requirements are met.		
July 2025 Meeting Action:		
Progress Report: The attachment for this interpretation was discussed. Mr. Sowinski stated that the TG has made no movement on this item.		
Task Group: Add J. Jessick		

Item Number: 25-34	NBIC Location: 2023 NBIC, Part 2, 2.3.6.2 b) 2) a. 3.	No Attachment
General Description: Interpretation request into the NBBI for the NB-23 2023 paragraph 2.3.6.2		
Subgroup: Inspection		
Task Group: None assigned.		
Submitted by: Ari Ben Swartz		
Explanation of Need: Numerous air receivers are found to be less than the required wall thickness.		
July 2025 Meeting Action: The SG reviewed the interpretation, Mr. Beauregard spoke ok this item, and the group had a lot of discussion. A task group was assigned.		
Task Group: C. Becker (PM), J. Beauregard, D. Fulford, J. Holland, V. Newton, J. Clark		

Item Number: 25-39	NBIC Location: Part 2, Forms	No Attachment
General Description: Replacement of Stamped Data		
Subgroup: Inspection		
Task Group: None assigned.		
Submitted by: G. Scribner		
Explanation of Need: ASME Certificate Holders who are successor organizations, are confusing the requirements of ASME CA-1, section 5.4 which allows the original manufacturer or a successor organization to reapply the ASME Single Certification Mark and designator to allow them to put the name of the successor organization on the nameplate.		
July 2025 Meeting Action: The SG reviewed the interpretation. After discussion a TG was assigned.		
Task Group: C. Becker (PM), C. Moultrie, R. Kennedy, K. Barkdoll, J. Smith, B. Ross, J. Clark, G. Scribner		

11. Action Items

Item Number: 23-81	NBIC Location: Part 2, 4.4.3 b)	No Attachment
General Description: Evaluate Inspector responsibilities relating to 4.4.3 FFS		
Subgroup: Inspection		
Task Group: M. Horbaczewski (PM), V. Scarcella, J. Clark, B. Ray, J. Ferreira, J. Sowinski		
Submitted by: R. Underwood		
Explanation of Need: Currently, 4.4.3-b states the Inspector shall review the condition assessment methodology and ensure the inspection data and documentation are in accordance with Section 4. This proposal would redefine the role and responsibility of the Inspector.		
July 2025 Meeting Action: Progress Report: Mr. Sowinski and Mr. Horbaczewski spoke on this item. The proposed wording changes to 4.4.3 and the changes to form NB-403 were reviewed. Mr. Ferrera also joined the meeting to discuss this item further. Mr. Ray suggested taking this item back to the TG and have them review sections 1.4 & 1.5 of API. After a long discussion, it was decided that the TG will go back and work on the proposal.		
Task Group: Add B. Ross, D. Fulton, L. Burton		

Item Number: 24-03	NBIC Location: Part 2, Supplement 6	No Attachment
<p>General Description: Revise "Inspector" terminology and requirements in Supplement 6</p> <p>Subgroup: Inspection Task Group: R. Kennedy, and J. Smith (PM) Submitted by: R. Underwood</p> <p>Explanation of Need: Part 2 Supplement 6 should be revised to align with Part 3, Suppl 6 and the DOT. A few references are S6.4.2 a), S6.4.2 c), S6.4.4, S6.4.5, S6.4.6, and S6.4.6.1. However, this may not be an all-inclusive list.</p>		
<p>July 2025 Meeting Action: Progress Report: Mr. Smith gave a progress report on this item. The TG is hoping to have a proposal for the next meeting.</p>		

Item Number: 24-28	NBIC Location: Part 2, S9.9.3 b) 4)	Attachment Page 4
<p>General Description: Applying PWHT to previously "as welded" item</p> <p>Subgroup: Inspection Task Group: Brent Ray, Paul Davis, Phil Gilston Submitted by: J. Swezy</p> <p>Explanation of Need: The NBIC clearly lists the application of PWHT to a PRI that was not previously PWHT by the original Manufacturer as an example of an alteration. I agree with that statement and believe it is appropriate to consider this to be an alteration. I do not under why the NBIC considers this as an acceptable alteration but does not provide its users with any guidance as to how they should address its implementation. It seems very clear to me that applying PWHT to such welds is rarely detrimental when properly applied and should not reduce their strength or toughness. If anything, it should prove helpful rather than harmful under properly considered application. Good engineering practice mandates that a carbon steel vessel undergoing a change to wet H2S service should receive PWHT to provide an improved resistance to hydrogen cracking corrosion. Failing to do so would be irresponsible. The NBIC rules for a change of service even mention this as a factor to consider in Part 2, Table S-9.4.</p>		
<p>July 2025 Meeting Action: Mr. Galanes joined the meeting to speak on this item. He presented a proposal to the SG. A motion was made to accept the proposal as presented. The motion was seconded. After further discussion the vote was called, and the proposal was unanimously approved.</p>		

Item Number: 24-37	NBIC Location: Part 2, 2.2.10	No Attachment
<p>General Description: Add language in the event boiler can't be secured at the time of inspection</p> <p>Subgroup: Inspection Task Group: T. Bolden (PM), J. Smith, B. Steinhart, D. Fulford, J. King, W. Hackworth, B. Ross Submitted by: V. Scarcella</p> <p>Explanation of Need: In some circumstances boilers cannot be shut down and a dead man switch is not allowed.</p>		
<p>July 2025 Meeting Action: Mr. Bolden presented and reviewed the proposal to the SG. After reviewing, it was stated that the TG would like to send the proposal to LB for vote.</p>		

Item Number: 24-42	NBIC Location: Part 2, 2.4.1 and 2.4.4	No Attachment
General Description: Add language to NBIC Part 2 in regard to piping inspections		
Subgroup: Inspection		
Task Group: D. Graf (PM), K. Barkdoll, R. Kennedy, B. Wilson, J. Beauregard, W. Griffith, G. Kopp		
Submitted by: V. Scarcella		
Explanation of Need: Two fatal incidents resultant from radiator failure prompted an ask for these changes.		
July 2025 Meeting Action:		
Progress Report: The PM was not present during the SG meeting; there was no progress to be reported.		

Item Number: 24-62	NBIC Location: Part 2, Section 2	No Attachment
General Description: Temporary Boiler Inspection		
Subgroup: Inspection		
Task Group: P. Pollick (PM), V. Newton, B. Ross, M. Horbaczewski, J. Mangus, J. Beauregard, M. Whitlock		
Submitted by: V. Scarcella		
Explanation of Need: No guidance for inspectors for temporary boiler inspections		
July 2025 Meeting Action:		
Progress Report: Mr. Pollick provided a progress report on this item. Mr. Scarcella stated he believes once the TG creates their proposal, they should share the proposal with Part 1 to get their comments.		
Task Group: Add T. Bolden		

Item Number: 24-75	NBIC Location: Part 2, Table 2.5.8	Attachment Pages 5-6
General Description: NBIC Part II Review table 2.5.8, suggest changes to align with NBIC Part 4		
Subgroup: Inspection		
Task Group: J. Smith (PM), B. Steinhart, T. Bolden, L. Burton		
Submitted by: V. Scarcella		
Explanation of Need: Tim Baker and Tim Bolden raised needed changes to NBIC Part II in table 2.5.8, the table needs review and alignment with the table in Part 4 3.2.6		
July 2025 Meeting Action:		
Mr. Smith presented a proposal to the SG. The proposal included changes to ensure Part 2 is in line with Part 4. The group also discussed why the information in Part 2 does not just reference Part 4 instead of duplicating the information. It was stated that Inspectors may not have access to Part 4 when doing an inspection, so the information needs to be duplicated. After reviewing the changes, a motion was made to accept the proposal as presented. The motion was seconded and unanimously approved.		

Item Number: 24-76	NBIC Location: Part 2, S7.9	No Attachment
General Description: Revision to Part 2, S7.9		
Subgroup: Inspection		
Task Group: T. Vandini (PM), D. Graf, J. Clark, C. Moultrie, L. Burton, M. Whitlock, P. Polick, J. Roberts		
Submitted by: James Roberts		
Explanation of Need: Currently commercially refurbishers can inspect pressure vessels per NBIC S7.8.1 through S7.8.5 and place back into service without any statement this inspection was completed and by who.		
July 2025 Meeting Action:		
Progress Report: Mr. Vandini stated there has been no movement on this item yet. They should have an update in January 2025.		

Item Number: 24-84	NBIC Location: Part 2, 2.3.6.10 and 2.3.6.11	No Attachment
General Description: Vessels above 10,000 psi reevaluation of remaining life		
Subgroup: Inspection		
Task Group: V. Newton (PM), J. Mangas, V. Scarcella, D. Fulford, J. King		
Submitted by: Craig Bierl		
Explanation of Need: Inspectors need to be able to have a paper trail of the code integrity of these vessels. Changing the original data (in this case, designed cycle life) should ONLY be completed with the involvement of an authorized inspector and MUST be documented on a National Board form in order to be audited by the inservice inspector.		
July 2025 Meeting Action:		
Progress Report: Mr. Newton gave progress report.		

Item Number: 24-90	NBIC Location: Part 2, S12.7 d)	No Attachment
General Description: Require means to prevent safety valve discharge piping blockage for LCDSV (Part 2)		
Subgroup: Inspection		
Task Group: None assigned.		
Submitted by: Mark Edwards		
Explanation of Need: Adding verbiage to the NBIC Part 1, Part 2 and Part 4 to require a means to prevent foreign material introduction to the safety valve discharge pipe.		
July 2025 Meeting Action:		
After reviewing this item, and after discussion it was decided that this is a Part 4 item and should be closed with no action from the Part 2 agenda. The item will then be noted in the items related to Part 2 for future agendas. A motion was made to close this item with no action . The motion was seconded and unanimously approved .		

General Description: Add field to NB 6 & NB 7 from JRS Team

Subgroup: Inspection

Task Group: None assigned.

Submitted by: V. Scarcella

Explanation of Need: Repeatedly came up in investigations and in discussions that after reviewing an inspection form the reader has no idea if the object was operating.

July 2025 Meeting Action:

Mr. Scarcella spoke to the SG on this item. He stated, he and Mr. Mooney spoke with the National Board attorney's and the language now matches all of the repair forms in Part 3. A motion was made to accept the proposal as presented. The motion was seconded and **unanimously approved**.

General Description: Add language clarifying the limitation of inspections presented by design.

Subgroup: Inspection

Task Group: V. Scarcella (PM), T. Bolden, J. Sowinski, R. Kennedy, W. Griffith, B. Ross, B. Ray, M. Whitlock

Submitted by: V. Scarcella

Explanation of Need: Currently an inspector could be held responsible for conditions they could not reasonably access.

July 2025 Meeting Action:

Mr. Scarcella presented a proposal to the SG. The SG made a few changes to the proposal, and a motion was made to accept the revised proposal. The motion was seconded and **unanimously approved**.

General Description: Need to restrict signatures to inspections for which the inspector was present

Subgroup: Inspection

Task Group: None assigned.

Submitted by: V. Scarcella

Explanation of Need: It has become practice in one jurisdiction for inspectors to sign inspection reports for apprentices.

July 2025 Meeting Action:

A motion was made to **close this item with no action** as it was presented to the Committee on Qualifications, and they added it to RCI-1, no further action is needed by the SG. The motion was seconded and **unanimously approved**.

12. New Items

Item Number: 25-23	NBIC Location: Part 2, 3.4.8	No Attachment
General Description: Add guidance for tube sag allowance		
Subgroup: Inspection Task Group: None assigned. Submitted by: V. Scarcella		
Explanation of Need: Inspectors were asking for clarification and better guidance. Item needs a working group to consider language.		
July 2025 Meeting Action: The group reviewed this item and assigned a TG.		
Task Group: J. Jessick (PM), B. Ray, J. Sowinski, T. Bolden		

Item Number: 25-27	NBIC Location: Part 2, 2.3.6.2, 2.3.6.4, 4.4, S7.8	No Attachment
General Description: Fitness-for-service coordination with API 579-1/ASME FFS-1		
Subgroup: Inspection Task Group: None assigned. Submitted by: J. Hadley		
Explanation of Need: Alert users about situations where acceptance criteria in Part 2 may be less strict than API 579-1/ASME FFS-1.		
July 2025 Meeting Action: Mr. Hadley presented a proposal to the SG. After reviewing the proposal, the SG chose to create a TG.		
Task Group: B. Ray (PM), D. Graf, J. Hadley, J. Selensky, C. Moultrie, J. Jessick		

Item Number: 25-31	NBIC Location: Part 2, New Supplement	No Attachment
General Description: Add a supplement that lists the standard boiler and pressure vessel types		
Subgroup: Inspection Task Group: None assigned. Submitted by: V. Scarcella		
Explanation of Need: This would get states using the standard across the country both from a violation and object type.		
July 2025 Meeting Action: Mr. Mooney explained this item to the SG and asked for a TG to be created.		
Task Group: J. Safarz (PM), M. Mooney, M. Horbaczewski, M. Whitlock, B. Ross, R. Wallace		

Item Number: 25-32	NBIC Location: Part 2, New Supplement	No Attachment
General Description: Referenced standards added supplement to NBIC Part II		
Subgroup: Inspection		
Task Group: None assigned.		
Submitted by: V. Scarcella		
Explanation of Need: Need working group to review and propose appropriate action.		
July 2025 Meeting Action: Mr. Scarcella presented this item to the SG and stated a TG needs to be assigned.		
Task Group: W. Griffith (PM), J. Holland, J. Hadley, D. Fulford, M. Whitlock, J. Smith		

Item Number: 25-36	NBIC Location: Part 2, S8.2	No Attachment
General Description: Relief valve differential percentage conflict.		
Subgroup: Inspection		
Task Group: None assigned.		
Submitted by: I. McGregor		
Explanation of Need: Clarification is needed to ensure a correct assessment of the recommended differential pressure percentage between the operating pressure and lifting pressure of the pressure relief valve. When making formal recommendations for corrective action due to high operating pressure differentials observed during inspections, the correct recommended value is needed to guide the adjustments necessary.		
July 2025 Meeting Action: After reviewing the proposal, a motion was made to send this item to Part 4 since it is in regard to Pressure Relief Devices. The motion was seconded and unanimously approved .		

Item Number: 25-37	NBIC Location: Part 2, Forms	Attachment Pages 9-12
General Description: Minor changes to NBIC Part 2 forms		
Subgroup: Inspection		
Task Group: None assigned.		
Submitted by: V. Scarcella		
Explanation of Need: Minor changes to NBIC Part 2 forms		
July 2025 Meeting Action: Mr. Scarcella presented this item to the SG. A proposal was created, and a motion was made and seconded. The motion was unanimously approved .		

At this point in the meeting Chair, Mr. Roberts, gave the meeting to the Vice Chair, J. Clark, while the next item is discussed.

Item Number: 25-43	NBIC Location: Part 2, 5.3.2	No Attachment
General Description: Revise NB-4, NB-6, & NB-7		
Subgroup: Inspection		
Task Group: None Assigned		
Submitted by: J. Roberts		
Explanation of Need:		
July 2025 Meeting Action: Mr. Roberts presented this item to the SG. The proposed changes were reviewed by the SG, and they chose to create a TG.		
Task Group: B. Ross (PM), B. Steinhart, K. Barkdoll, V. Scarcella, M. Mooney		

Mr. Clark gave the meeting back to Mr. Roberts.

Membership Reappointment: Mr. Roberts addressed the SG regarding Mr. Polick's membership on the SG. He stated that Mr. Polick would like to remain on the SG until a new Chief has joined the SG. A motion was made to reappoint Mr. Polick's to the SG. The motion was seconded and **unanimously approved**.

13. Future Meetings

- January 12-15, 2026 – New Orleans, LA

Mr. Roberts discussed the future meetings with the SG.

Mr. Luis Ponce noted that the July 2026 meeting will be in Salt Lake City, UT, and the January 2027 meeting will be in Nashville, TN.

14. Adjournment

A motion was made to adjourn the meeting at 3:02. The motion was seconded and unanimously approved.

Respectfully submitted,



Jodi Metzmaier,
Subgroup Inspection Secretary

Subgroup Inspection Member Attendees - July 2025

Name:	Interest Category	Email	Registered	In Person Attendance	Remote Attendance	Not In Attendance
James Roberts - Chair	Manufacturers	james.roberts@triarccorp.com	In-Person	X		
Jim Clark - Vice Chair	Manufacturers	james.clark@worthingtonindustries.com	In-Person	X		
Jodi Metzmaier - Secretary	NBBI	jmetzmaier@nbbi.org	In-Person	X		
Joseph Beauregard	Users	joeducati@hotmail.com	In-Person	X		
Chuck Becker	Authorized Inspection Agencies	hggbecker@yahoo.com	In-Person	X		
Tim Bolden	Authorized Inspection Agencies	timothy.bolden@cna.com	In-Person	X		
Lee Burton (Damon)	National Board Certificate Holders	burtondl@airproducts.com	In-Person	X		
James Calvert	National Board Certificate Holders	jcalvert@lilly.com	In-Person	X		
David Dexter	Users	dexterdc@dow.com	Remote	X		
Darrell Graf	National Board Certificate Holders	grafdr@airproducts.com				X
William Hackworth	Authorized Inspection Agencies	william.hackworth@tvsud.com	Remote		X	
Mark Horbaczewski	Users	mhorbaczewski@diamondtechnicalservices.com	In-Person	X		
Jerry Jessick	Users	jjessick@fusion-etc.com	In-Person	X		
Randy Kennedy	National Board Certificate Holders	rkennedy@babcock.com	In-Person	X		
John Mangas	General Interest	jcmangas@gmail.com				X
Clay Moultrie	Manufacturers	cmoultrie@propanetank.com	In-Person	X		
Venus Newton	Authorized Inspection Agencies	venus_newton@yahoo.com	In-Person	X		
Pat Polick	Jurisdictional Authorities	patrick.polick@illinois.gov	In-Person	X		
Brent Ray	Users	bdray@marathonpetroleum.com	In-Person	X		
David Rose	Users	dr3747@telus.net				X
William Ross	Jurisdictional Authorities	wross@pa.gov	In-Person	X		
Jason Safarz	General Interest	jsafarz@karldungsusa.com	In-Person	X		
Vincent Scarcella	Authorized Inspection Agencies	vincent.scarcella@cna.com	In-Person	X		
Jeremy Smith	General Interest	jeremy.smith@labor.nc.gov	In-Person	X		
Brandon Steinhart	Authorized Inspection Agencies	brandon.steinhart@fmglobal.com	In-Person	X		
Thomas Vandini	National Board Certificate Holders	tvandini@propanetank.com	In-Person	X		
Mike Whitlock	Authorized Inspection Agencies	gerald_whitlock@hsb.com	In-Person	X		
Brandon Wilson	General Interest	bwilson@lmce.solutions				X

Subgroup Inspection Visitor Attendees - July 2025

Name	Company/Title/Interest	Email	Registered	In Person Attendance	Remote Attendance
Ryan Eberly	Quality Steel Corporation	reberly@propanetank.com	Remote		X
Daniel Fulford	Battelle Energy Alliance, LLC Quality Engineer	Daniel.fulford@inl.gov	In-Person	X	
Jerry Holland	Bureau Veritas	jerry.holland@bureauveritas.com	In-Person	X	
Jim Bell	Fink Engineering	jim@finkusa.com	In-Person	X	
James Hadley	Fact Fancy, LLC	james.hadley@factplusfancy.com	Remote		X
John King	Chubb Insurance QC Program Manager	johnking@chubb.com	Remote		X
James Sowinski	The Equity Engineering Group, Inc. Principal Engineer	jsowinski@e2g.com	In-Person	X	
Rich Wallace	Diamond Technical Services	rwallace@diamondtechnicalservices.com	In-Person	X	
Butch Lynch	Office of Commissioner of Insurance & Safety Fire	blynch@oci.ga.gov			X
Alex Chang	US DOT			X	
Paul Shanks	ARISE			X	
Jon Ferrera	HSB			X	
Kathy Moore				X	
Ken Barkdoll	ARISE District Manager	ken.barkdoll@tuvsud.com			X
Wil Griffith	Zurich - RE Manager	william.griffith@zurichna.com		X	
Mark Mooney	NBBI	mmooney@nbbi.org	In-Person	X	
Lee Cochran	NBBI	lcochran@nbbi.org	In-Person	X	
Greg Goossens	NBBI	ggoossens@nationalboard.org	In-Person	X	
Demetria Rodriguez	NBBI	drodriguez@nbbi.org	In-Person	X	
Gary Scribner	NBBI	gscribner@nbbi.org	In-Person	X	
Luis Ponce	NBBI	lponce@nbbi.org	In-Person	X	

Announcements

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- MS Teams Notes:
 - Please stay muted during the meeting. If you would like to speak, please use the “raise hand” feature, and then you can unmute as you are called on. Teams will note the order in which your hands were raised, and we will call on you in that order.
 - Any messages sent through chat **will be displayed for anyone in the meeting to see**. If you need to send me a private message, please send it to me directly and not through the meeting chat.
 - If you are calling in with a phone number, please change your name from your phone number to your actual name.

- This meeting marks the end of Cycle B for the 2027 NBIC edition.

- With the release of the new 2025 Edition of the NBIC the National Board has a gift for all NBIC Committee Members to show our appreciation for all your hard work. Please see Jonathan or Luis in the NB office (Mt. Washington Room), located here on the 4th Floor to receive your gift.

- The National Board will be hosting a reception on Wednesday evening from 5:30 p.m. to 7:30 p.m. at Ault Park, on the 4th floor of the hotel.

- 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 Madisonville A/B, and lunch will be served from 11:30 a.m. to 12:30 p.m. in Madisonville A/B.

- If you’d like to open a new Interpretation or Action Item, this should be done through the National Board Business Center.
 - Anyone, member or not, can open a new item.

- Meeting schedules, meeting room layouts, and other helpful information can be found on the National Board website under the **NBIC** tab → NBIC Meeting Information.

- **The NBIC Committee has transitioned from NB File Share to SharePoint.** 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.

- All proposals should be submitted in word with “strike through/underline” tracking.
 - Please contact me (jmetzmaier@nbbi.org) if you need any help with this.
 - Project Managers: please ensure any proposals containing text from the 2023 NBIC are updated to contain text in the 2025 NBIC.

- As a reminder, anyone who would like to become a member of a group or committee:
 - should attend at least 2 meetings prior to being put on the agenda for membership consideration. The nominee will be on the agenda for vote during their 3rd meeting, and they would become a voting member during their 4th meeting.
 - The nominee must submit the formal request along with their resume to the NBIC Secretary, Jonathan Ellis, **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, the room set up, etc. Please continue to use the online registration for each meeting, whether you are attending in person or remote. It also is a good way to make sure we have the most up-to-date contact information.

Item 24-28

Submitted by G. Galanes

Background

The intent of this code revision is to address concerns related to the application of PWHT when no PWHT was originally performed/required. We identified it as an alteration with no guidance on how to address post construction application of PWHT.:

Proposed Revisions: Add text (red underlined is new text) to Part 2, Supplement 9, paragraph S9.3(b), as a new subparagraph S9.3(b)(4) to Supplement 9 Change of Service;

S9.3 FACTORS TO CONSIDER

b) Material Consideration:

- 1) Chemical and mechanical properties of existing material or any new material to be added or replaced to ensure it has the required strength and toughness to withstand the pressure and temperature effects of the new environment.
- 2) Effects of erosion or corrosion.
- 3) Time-dependent effects on service life: Creep, fatigue, or both effects combined.
- 4) Prior to application of post weld heat treatment (PWHT) to a pressure retaining item when no PWHT had been performed based on the original code of construction, both conditions shall be met:
 - a. determine that the application of PWHT will not adversely affect the performance of the pressure retaining item for the intended service conditions.
 - b. determine the PWHT holding temperature and holding time.

REFERENCE: Add a statement in Part 3, paragraph 3.4.4(k) referring the user to this new subparagraph, by revising it to read:

k) Performing post weld heat treatment (PWHT) where no PWHT was originally performed on the pressure retaining item [See NBIC Part 2, S9.3b)4].

Submitted By: George Galanes, P.E.

NBIC PART 2

TABLE 2.5.8

Service	Recommended Inspection Type /Frequency (See Note 4)
Power boilers less than 400 psig (2.76 MPa)	Lift lever test every six months; set pressure test annually or prior to planned boiler shutdown
Power boilers 400 psig (2.76 MPa) or greater	Set pressure test every three years or prior to planned boiler shutdown
High-temperature hot-water boilers (See Note 1)	Set pressure test annually
Low-pressure steam-heating boilers	Lift lever test quarterly; set pressure test annually prior to heating season
Organic fluid vaporizers	Remove, inspect, and set pressure test annually
Thermal fluid heaters	Remove, inspect, and set test pressure annually
Hot-water-heating boilers (See Note 2)	Lift lever test quarterly; set pressure test annually prior to heating season
Water heaters (See Note 3)	Lift lever test every two months; every three years, remove and inspect temperature probe for damage, buildup, or corrosion
Pressure vessels / piping-steam service	Set pressure test annually
Pressure vessels / piping-air/clean, dry gas	Set pressure test every three years
Pressure vessels / piping-propane/refrigerant	Set pressure test every five years
Pressure relief valves in combination with rupture disks	Set pressure test every five years
All others	Per inspection history

Note 1: For safety reasons, removal of the valve and testing on a steam test bench is recommended. Such testing will avoid damaging the pressure relief valve by discharge of a steam-water mixture, which could occur if the valve is tested in place.

Note 2: The frequencies specified for the testing of pressure relief valves on boilers are primarily based on differences between high-pressure boilers that are continuously monitored, and lower pressure, automatically controlled boilers that are not monitored at all times by an operator. When any boiler experiences an overpressure condition such that the pressure relief valves actuate, the valves should be inspected for seat leakage and other damage as soon as possible, and any deficiencies should be corrected.

Note 3: The temperature probe shall be checked for the condition of the coating material and freedom of movement without the probe becoming detached. If the valve is damaged or fails the testing described in Table 2.5.8 above, it shall be repaired or replaced.

Note 4: Where the jurisdiction has adopted other standards for specific applications, those standards shall be used.

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Jeremy Smith

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2.5.1 SCOPE

- a) The most important appurtenances on any pressurized system are the pressure relief devices (PRDs) provided for overpressure protection of that system. These are devices such as pressure relief valves, ~~and~~ rupture disks, ~~and-or~~ other non-reclosing devices that are called upon to operate and reduce an overpressure condition.

2.5.5.1 POWER BOILERS**2.5.5.2 HOT-WATER HEATING BOILERS, HOT WATER SUPPLY BOILERS, AND POTABLE WATER HEATERS****2.5.5.4 NON-RECLOSING PRESSURE RELIEF DEVICES**

- g) For rupture disks and other non-reclosing devices, the following additional items should be considered during inspections.

9) Since rupture disks are ~~non-reclosing devices~~ ~~single activation devices~~, a visual inspection is the only inspection that can be performed. A rupture disk that is removed from its holder ~~shall~~ ~~should~~ not be reinstalled ~~unless recommended by the manufacturer~~. A rupture disk contained in an assembly that can be removed from a system without releasing the force maintaining the ~~intimate~~ contact between the disk and the holder, such as pre-torqued, welded, soldered, and some threaded assemblies, may be suitable for reinstallation after visual inspection. The manufacturer should be consulted for specific recommendations.

2.5.8.1 ESTABLISHMENT OF INSPECTION AND TEST INTERVALS

Where a recommended test frequency is not listed, the valve user and Inspector must determine and agree on a suitable interval for inspection and test. Some items to be considered in making this determination are:

- a) Jurisdictional requirements;
- b) Records of test data and inspections from similar processes and similar devices in operation at that facility;
- c) Recommendations from the device manufacturer. In particular, when the valve includes ~~a~~ non-metallic parts such as a diaphragm or soft seat, periodic replacement of those parts may be specified;

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V. Scarcella

Wording to add to the bottom of NB-6 & NB-7:

The owner user is responsible for the proper operation, care and maintenance of all jurisdictional objects and compliance with all applicable codes and regulations. The inspection is a point in time inspections and conditions can change often and suddenly. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage, or loss of any kind arising from or connected with this inspectiondocument review.

NBIC Action Item A24-104
 Submitted by Vinny Scarcella (Vincent.Scarcella@cna.com)
 Submitted on: November 25, 2024



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

Subject:	Add language clarifying the limitation of inspections presented by design.
NBIC Location:	Part 2, 2.1
Statement of Need:	Currently an inspector could be held responsible for conditions they could not reasonably access.
Background Information:	Without a statement explaining the limitations persons not familiar with code construction may erroneously believe and inspector can access all surfaces of a boiler.

Proposed Text:

Inspectors are not always able to see all parts of the boiler during an inspection. The construction of the boiler can limit the scope of inspection. Boilers without handholes and manholes limit visual access to water and steam side surfaces.

**PART 2, SECTION 2
 INSPECTION — DETAILED REQUIREMENTS FOR
 INSERVICE INSPECTION OF PRESSURE-RETAINING ITEMS**

2.1 SCOPE

This section provides general and detailed inspection requirements and guidelines for pressure-retaining items to determine corrosion deterioration and possible prevention of failures for boilers, pressure vessels, piping, and pressure relief devices.

Visual inspections of pressure retaining items that are inherently limited by physical design features may not allow for viewing every part of an object. Insulation and other obstructions can impede the inspection, and some flaws may not be visible. An inspector should make every reasonable effort to safely access and inspect all areas physically possible. The Inspector shall not be responsible for any defects, damages, or issues that were not visible or accessible at the time of the inspection.

Materials to be inspected shall be suitably prepared so that surface irregularities will not be confused with or mask any defects. Material conditioning such as cleaning, buffing, wire brushing, or grinding may be required by procedure or, if requested, by the Inspector. The Inspector may require insulation or component parts to be removed.



NB-6, Rev.7, (03/14/23)

FORM NB-6 BOILER-FIRED PRESSURE VESSEL REPORT OF INSPECTION

Standard Form for Jurisdictions Operating Under the ASME Code

1. DATE INSPECTED: _____ CERTIFICATE EXPIRATION DATE: _____ CERTIFICATE POSTED: YES NO
(Month/Day/Year) (Month/Day/Year)

USER NUMBER: _____ NAT'L BD NUMBER OR SERIAL # (IF CAST IRON) _____

FIRST INSPECTION: YES NO JURISDICTION NUMBER: _____

NATIONAL BOARD NUMBER: _____ OTHER NUMBER: _____

2. EQUIPMENT LOCATION NAME: _____

EQUIPMENT LOCATION ADDRESS: _____
(Equipment Location Street) (Equipment Location City)

(Equipment Location State) (Equipment Location Zip Code)

NATURE OF BUSINESS: _____

KIND OF INSPECTION: INTERNAL EXTERNAL CERTIFICATE RENEWAL: YES NO

3. CERTIFICATE BUSINESS NAME: _____

CERTIFICATE CONTACT: _____
(NAME) (Email)

CERTIFICATE MAILING ADDRESS: _____
(Certificate Mailing Street) (Certificate Mailing City)

(Certificate Mailing State) (Certificate Mailing Zip Code)

4. INVOICE BUSINESS: _____
(Name)

CERTIFICATE INVOICE CONTACT: _____
(Name) (Email)

INVOICE ADDRESS: _____
(Invoice Address Street) (Invoice Address City)

(Invoice Address State) (Certificate Mailing Zip Code)

5. TYPE: FT WT CI OTHER: _____ ASME/OTHER CODE: _____

MANUFACTURER: _____ YEAR BUILT: _____

MANHOLE HANDHOLE NEITHER CERTIFICATE DURATION (MONTHS): _____

6. USE: POWER PROCESS STEAM HEATING HWH HWS OTHER

FUEL TYPE: _____ METHOD OF FIRING: _____

LOCATION IN PLANT: _____

SECTION 5



7. LOW WATER CUTOFF INSTALLED: YES NO TESTED: YES NO

HIGH LIMIT TEMP/PRESSURE INSTALLED: YES NO WAS BOILER FIRED: YES NO

COMBUSTION CONTROLS: CSD-1 NFPA OTHER _____

COMBUSTION AIR VERIFIED: YES NO

8. ARE THERE ANY KNOWN OUTSTANDING (OPEN) VIOLATIONS FOR THIS EQUIPMENT? YES NO (IF YES, EXPLAIN FULLY UNDER ADVERSE CONDITIONS FOUND)

LOG/RECORD REVIEW: YES NO

PRESSURE TEST: YES PSI: _____ DATE: _____ NO

9. STAMPED MAWP: _____ MINIMUM PRD REQUIRED CAPACITY: _____

NUMBER OF PRD'S: _____ TOTAL CAPACITY: _____ Verify relief valve has yes no been tested

SET PRESSURE: _____ CAPACITY: _____

SET PRESSURE: _____ CAPACITY: _____

SET PRESSURE: _____ CAPACITY: _____

10. INSPECTORS COMMENTS: (Verify any repairs were completed by a qualified repair company, and when applicable, the proper repair/ alterations forms are completed.)

11. ADVERSE CONDITIONS FOUND: _____

12. REQUIREMENTS: _____

13. PERSON TO WHOM REQUIREMENTS WERE EXPLAINED: _____ (Name) _____ (Title)

(Email) _____ (Phone Number)

14. I HEREBY CERTIFY THIS IS A TRUE REPORT OF MY INSPECTION:

NB COMMISSION NUMBER: _____ EMPLOYED BY: _____

IDENTIFICATION NUMBER: _____ SIGNATURE OF INSPECTOR: _____



NB-7, Rev.8, (03/14/23)

FORM NB-7 PRESSURE VESSELS REPORT OF INSPECTION

Standard Form for Jurisdictions Operating Under the ASME Code

1. DATE INSPECTED: _____ CERTIFICATE EXPIRATION DATE: _____ CERTIFICATE POSTED: YES NO
(Month/Day/Year) (Month/Day/Year)

USER NUMBER: _____ JURISDICTION NUMBER: _____

NATIONAL BOARD NUMBER: OR SERIAL NUMBER: (IF CAST IRON) _____

FIRST INSPECTION: YES NO

2. EQUIPMENT LOCATION NAME: _____

NATURE OF BUSINESS: _____

KIND OF INSPECTION: INTERNAL EXTERNAL CERTIFICATE RENEWAL: YES NO

3. EQUIPMENT LOCATION ADDRESS: _____
(Equipment Location Street) (Equipment Location City)

(Equipment Location State)

(Equipment Location Zip Code)

4. CERTIFICATE BUSINESS NAME: _____

CERTIFICATE CONTACT: _____
(NAME) (Email)

5. CERTIFICATE MAILING ADDRESS: _____
(Certificate Mailing Street) (Certificate Mailing City)

(Certificate Mailing State)

(Certificate Mailing Zip Code)

6. INVOICE BUSINESS: _____
(Name)

CERTIFICATE INVOICE CONTACT: _____
(Name) (Email)

7. INVOICE ADDRESS: _____
(Invoice Address Street) (Invoice Address City)

(Invoice Address State)

(Certificate Mailing Zip Code)

8. TYPE: AIRTANK WATER TANK OTHER: _____ ASME/OTHER CODE: _____

MANUFACTURER: _____ YEAR BUILT: _____

MANHOLE HANDHOLE NEITHER CERTIFICATE DURATION (MONTHS): _____

9. USE: STORAGE PROCESS HEAT EXCHANGE OTHER: _____

HORIZONTAL VERTICAL LENGTH: _____ DIAMETER: _____

SECTION 5



10. STAMPED MAWP: _____ MINIMUM PRD REQUIRED CAPACITY:

NUMBER OF PRD'S: _____ TOTAL CAPACITY: _____

Verify relief valve has been tested yes no

SET PRESSURE: _____ CAPACITY: _____

SET PRESSURE: _____ CAPACITY: _____

SET PRESSURE: _____ CAPACITY: _____

OVERPRESSURE PROTECTION BY SYSTEM DESIGN: SIZE (ft³ or Gallons):

11. ARE THERE ANY KNOWN OUTSTANDING (OPEN) VIOLATIONS FOR THIS EQUIPMENT? YES NO (IF YES, EXPLAIN FULLY UNDER ADVERSE CONDITIONS FOUND)

PRESSURE TEST: YES PSI _____ Date _____ NO

12. INSPECTORS COMMENTS: (Verify any repairs were completed by a qualified repair company, and when applicable, the proper repair/alterations forms are completed.)

13. ADVERSE CONDITIONS FOUND: _____

14. REQUIREMENTS: _____

15. PERSON TO WHOM REQUIREMENTS WERE EXPLAINED: _____

(Name)

(Title)

(Email)

(Phone Number)

16. I HEREBY CERTIFY THIS IS A TRUE REPORT OF MY INSPECTION:

NB COMMISSION NUMBER: _____ EMPLOYED BY: _____

IDENTIFICATION NUMBER: _____ SIGNATURE OF INSPECTOR: _____