



THE NATIONAL BOARD
OF BOILER AND PRESSURE VESSEL INSPECTORS

Date Distributed: July 26, 2024

NATIONAL BOARD INSPECTION CODE TASK GROUP HISTORICAL BOILERS

MINUTES

Meeting of July 15, 2024
Louisville, KY

*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
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1. Call to Order

Mr. Trevor Seime, Historical Task Group (TG) Chair, called the Historical TG meeting to order at 8:01am EST.

2. Introduction of Members and Visitors

Secretary, Ms. Jodi Metzmaier did a roll call of all TG members in person and online. All visitors in person and online stated their name and their company. All members and visitors are noted on the attendance sheets. (**Attachment Pages 1**)

3. Check for a Quorum (51% - 13 Members, need at least 7 for Quorum)

With 12 of 13 members in attendance, both in person and online, a quorum was established.

4. Awards/Special Recognition - None

5. Announcements

Ms. Metzmaier gave announcements to the TG. (**Attachment Page 2**)

6. Adoption of the Agenda

A motion was made to accept the agenda as presented. The motion was seconded and unanimously approved.

7. Approval of the Minutes of the January 8, 2024, Meeting

The minutes can be found on the NBIC Committee Information page under the Inspection Code tab on NBBi.org.

A motion was made to approve the minutes from the January 8, 2024, Historical TG Meeting. The motion was seconded and unanimously approved.

8. Review of Rosters

- a. **Membership Reappointments** - The following memberships are set to expire prior to the January 2025 meeting: Mr. Trevor Seime and Mr. Tom Dillon.

Both members stated they would like to be reappointed to the Historical TG. A motion was made to reappoint both members. The motion was seconded and unanimously approved.

b. **Membership Nominations**

None.

- c. **Officer Nominations** - Mr. Seime's and Mr. Dillon's terms as Chair and Vice Chair are set to end on July 31, 2024. The Task Group will need to nominate Chair and Vice Chair candidates. Note that Mr. Seime and Mr. Dillon are eligible to be reappointed to the positions.

Mr. Seime stated he would like to be reappointed as Historical TG Chair. There were no other nominees or volunteers for this position. A motion was made to reappoint Mr. Seime as Chair. The motion was seconded and unanimously approved.

Mr. Dillon stated he would like to be reappointed as Historical TG Vice Chair. There were no other nominees or volunteers for this position. A motion was made to reappoint Mr. Dillon as Vice Chair. The motion was seconded and unanimously approved.

9. Interpretations - There are no open Historical TG interpretation items.

10. Action Items

Item Number: 20-25	NBIC Location: Part 3, S2.13	No Attachment
General Description: Repair Procedure for Fire Boxes		
Subgroup: SG Historical		
Task Group: M. Wahl (PM), R. Forbes, T. Dillon, L. Moedinger, C. Jowett, & F. Johnson		
Explanation of Need: In NBIC Part 3, S2.13.10.3, S2.13.11 do not define what to do at a riveted joint. On the tubesheet, or firedoor sheet, where it is flanged to rivet to the firebox, the repairs are silent on what to do at the riveted joint.		
July 2024 Action: Progress Report: Mr. Wahl stated he has not had any movement on this item.		

Item Number: 23-62	NBIC Location: Part 3, S2	Attachment Page 3
General Description: Reusing pressure retaining items under alteration		
Subgroup: SG Historical		
Task Group: M. Wahl (PM), C. Jowett, F. Johnson, J. Smith, R. Bryce, L. Moedinger, and D. Rupert		
Explanation of Need: Addition to book explaining how a pressure retaining item can be reused on a historical boiler under the guidelines of an alteration.		
July 2024 Action: The LB that was sent to the Historical TG passed; however, Mr. Wahl stated there were a few editorial changes they wanted to make and should be discussed. During review of the editorial changes, there were further changes to the document to make it clearer. A motion was made to accept the revised proposal. The motion was seconded and unanimously approved .		

Item Number: 23-74	NBIC Location: Part 2, S2	No Attachment
General Description: Certificate of compliance for new fusible plugs		
Subgroup: SG Historical		
Task Group: None assigned.		
Explanation of Need: To discuss the possibility of requiring a certificate of compliance on all new fusible plugs on historical boilers.		
July 2024 Action: Ms. Metzmaier gave a report on this item stating the item was closed with no action at the January 2024 meeting. During the Main Committee (MC) meeting it was decided to put this item on hold until the BOT reviews the subject to see if the committee should address this further. Per Mr. Scribner, this issue was not discussed during the BOT meeting in May 2024. Mr. Seime stated this item was in fact not discussed during the BOT meeting; however, it was brought up in discussion with some of the members after the meeting. During this discussion they all agreed to the reasoning behind closing the item with no action. Mr. Seime will present this item during the MC meeting to explain to them why the item should be closed with no action. There was no action taken by the Historical TG.		

Item Number: 23-85	NBIC Location: Part 2, S2.14.7	No Attachment
General Description: Review paragraphs to replace with proper verbiage		
Subgroup: SG Historical Task Group: M. Wahl (PM), K. Anderson		
Explanation of Need: There is some slang and second person (POV) verbiage throughout these paragraphs. Recommend rewording with proper terminology (such that it could be understood internationally) and changing point of view (e.g., changing "you're pulling water" to "water is being pulled"). Since I don't have the technical knowledge to know what is slang and what isn't, what I have proposed will still need to be reworded.		
July 2024 Action: Progress Report: Mr. Wahl stated his group will continue to work on the item.		

11. New Items

Item Number: 24-23	NBIC Location: Part 2, S2.10.4.2	Attachment Page 4
General Description: Review Verbiage in Part 2, S2.10.4.2		
Subgroup: SG Historical Task Group: None assigned. Submitted by: Michelle Vance		
Explanation of Need: What is the meaning of "pillow/mattress-effects"? Is there a better way to describe this? Is this phrase normally understood outside of the US/by someone who may not speak English?		
July 2024 Action: After discussion of the item, a task group was created.		
TASK GROUP: J. Smith (PM), C. Jowett, J. Wolf		
During a breakout session the task group created a proposal. The proposal was reviewed with the TG, and a motion was made to accept the proposal as presented. The motion was seconded and unanimously approved.		

Item Number: 24-47	NBIC Location: Part 2, S2.6.1 a)	No Attachment
General Description: Interpretation 23-05 inverted verbiage		
Subgroup: SG Historical Task Group: None assigned. Submitted by: Paul Shanks		
Explanation of Need: The current published interpretation includes a term heritage boiler that is not present in the NBIC, further the interpretation says it is permissible to add pressure to a hydro test, whilst recognizing this is not an unusual or abhorrent process there are no words supporting adding pressure. Changing the wording to is it prohibited (which it is not) and reversing the answer allows this to happen without a potential rule by interpretation conflict.		
July 2024 Action: After discussion of this item the TG decided that the Interpretation does not need to be revised. A motion was made to close this item with no action. The motion was seconded and unanimously approved.		

12. Ongoing Discussion Items

A. Concern for Historical Boiler Inspection Nationwide:

- **July 2024 Discussion Review:**

Mr. Seime gave a progress report. He states they are on the road to getting an inspector training course created. He also stated that himself and a few other Chief's attended steam school in MN, where they had a lot of discussions regarding how we can incorporate steam school and general information for the owners/operators on the NB website. Mr. Seime noted there was discussion of possibly adding a new "H" endorsement for the inspection of historical boilers. A few members do not believe adding another endorsement is the right answer. Another suggestion was to limit this to just jurisdictional inspectors. The group believes that the training needs to be in place prior to any thoughts of adding an endorsement. Mr. Seime stated once everything has been created it will be sent out to a few Chief's and TG members to review and beta testing.

B. Dialog regarding the publication Soot in the Flues, from the old iron man albums.

- **July 2024 Discussion Review:**

This conversation was tied into the discussion above.

13. Future Meetings

- January 13-16, 2025 – Charleston, SC
- July 2025 – TBD

Mr. Seime discussed the future NBIC Meetings with the TG.

14. Adjournment

A motion was made to adjourn the meeting at 10:02 AM EST. The motion was seconded and unanimously approved.

Respectfully submitted,



Jodi Metzmaier, Historical Task Group Secretary

Taskgroup Historical Member Attendees - July 2024

MEMBERS:	Interest Category	Email	Registered	In Person Attendance	Remote Attendance	Not In Attendance
Trevor Seime - Chair	Jurisdictional Authorities	tsseime@nd.gov	In-Person	X		
Tom Dillon - Vice Chair	General Interest	dillon16hp@gmail.com	In-Person	X		
Jodi Metzmaier	NBIC Secretary	jmetzmaier@nbbi.org	In-Person	X		
Kevin Anderson	Users	kanderson@nvc.net	Remote			X
Michael Carlson	Jurisdictional Authorities	camx235@lni.wa.gov	In-Person	X		
Jonathan Ferreira	Authorized Inspection Agencies	jonathan_ferreira@hsb.com	In-Person	X		
Michael Horton	General Interest	mdhortongr4642@aol.com	Remote		X	
Frank Johnson	Users	fjkeck22@aol.com	Remote	X		
Chris Jowett	National Board Certificate Holder	cesrepairandrestoration@gmail.com	In-Person	X		
David Rose	Users	dr3747@telus.net			X	
Dennis Rupert	General Interest	rupercull@comcast.net	Remote		X	
Jeremy Smith	General Interest	jeremy.smith@labor.nc.gov	In-Person	X		
Mike Wahl	General Interest	mikew@midstal.com			X	
Jon Wolf	Authorized Inspection Agencies	jon.wolf@zurichna.com	In-Person	X		

Taskgroup Historical Visitor Attendees - July 2024

VISITORS:	Company/Title/Interest	Email	Registered	In Person Attendance	Remote Attendance
Howard Berny	State of MN	howard.j.berny@state.mn.us	In-Person	x	
Kiwi Derrick	Chevron	kiwi.derrick@chevron.com	In-Person	x	
Del Schirmer	BPC / XL Insurance	del.schirmer@BoilerProperty.com	In-Person	x	
Ron Spiker	State of SC	ronndj@gmail.com	Remote	x	
Rich Wallace	Diamond Technical Services - General Manager	rwallace@diamondtechnicalservices.com	In-Person	x	
Robert Bryce	CSA Canadian Standards Association	robert@clanbryce.ca	Remote		x
Robion Forbes	VP of British Columbia Boiler Association	robin.a.forbes@outlook.com	Remote		x
Richard Smith	Software Engineering	baker2390@gmail.com	Remote		x
Lawrence Swanz	Swanz Boiler Design & Mfg.	advancerumely@hotmail.com			x
Joseph Beauguard	Los Alamos	joeducati@hotmail.com	In-Person	x	
Christa Rogers	NBBI	rcrogers@nbbi.org	In-Person	x	
George Galanes	MC Chair	ggalanes@diamondtechnicalservices.com	In-Person	x	
Joel Amato	NBBI	jamato@nbbi.org	In-Person	x	

- 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.
- This meeting marks the end of Cycle D for the 2025 NBIC edition. This meeting marks the end of the 2025 NBIC development cycle and is the last opportunity for code revisions to be approved for the 2025 NBIC. **Anything that is being sent to letter ballot will NOT be included in the 2025 edition.**
- The National Board will be hosting a reception on Wednesday evening from 5:30 p.m. to 7:30 p.m. at the Rooftop Garden on the 16th floor of the hotel.
- The National Board will be hosting breakfast and lunch on Thursday on the 1st floor in Citation A/B 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.
- There is a tutorial for submitting NBIC requests on the NBIC tab of the Business Center. The link is under the NBIC Requests section. If there are any other tutorials you think would be helpful, please let us know and we can do our best to add more.
- 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**.
 - Note that access to the NBIC file share site is limited to committee members only.
 - ALL power point attachments/presentations must be sent to the NBIC Secretary prior to the meeting for approval.
 - Contact Jonathan Ellis (nbicsecretary@nbbi.org) for any questions regarding NBIC file share 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 2021 NBIC are updated to contain text from the 2023 NBIC.
- 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.
- 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 of a new member between meetings.
- We have been told by the hotel that if you plan to go eat at the restaurants at the hotel for dinner, you should make a reservation through the open table app. They told us that the restaurant fills up quickly, and it’s best to make a reservation to ensure you can get in. They also mentioned that it’s best to make reservations for restaurants outside of the hotel.
- 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. IF you have registered, make sure to pick up your name badge. **If you did not register, please do this now so we have an accurate count for the reception on Wednesday and breakfast and lunch on Thursday.**

S2.4.1 Limitations

- a) Work performed on historical boilers which were not constructed to a recognized code of construction shall be considered an alteration and shall conform to an accepted code of construction.
- b) Any pressure retaining part or attachment of a historical boiler can be replaced as a repair or alteration.
- c) There is no limitation to the amount of pressure retaining parts or attachments on a historical boiler that can be replaced.
- d) Work is to be performed using replacement material that:
 - 1) is acceptable per NBIC Part 3, S2.7.1;
 - 2) has a nominal composition and strength that is equal to or greater than the original material; and
 - 3) is suitable for the intended service.
- e) If the work being perform modifies the historical boiler from its original design or code of construction, the work shall be done as an alteration unless specified otherwise within Part 3 Supplement 2. Below is a list of some examples that are considered alterations.
 - 1) Construction of seams is modified from original design (e.g. changing from riveted to welded).
 - 2) Flanged corners are removed (e.g. changing firebox from flanged door sheet and rear tube sheet to a flat sheet).
 - 3) Replacement material thickness is less than the original material thickness.
 - 4) Riveted seam dimensions are changed from original construction (e.g. rivet spacing changed or rivet size changed).
 - 5) Braces are changed from original construction (e.g. changing from rivet braces to welded braces).
 - 6) The addition of new threaded connections, handholes, or openings.

Item 24-23
M. Vance
2/20/2024
Page 1 of 1

Subject: Review Verbiage in Part 2, S2.10.4.2

Statement of Need

What is the meaning of "pillow/mattress-effects"? Is there a better way to describe this? Is this phrase normally understood outside of the US/by someone who may not speak English?

S2.10.4.2 BULGING

Stayed surfaces shall be examined and any deformations shall be measured and recorded. Deformations may be caused from freezing, localized overheating, broken staybolts, or extended use (cyclic activity). Deformations may be described as bulging, bagging, or continuous bulging (pillow/mattress-effects) see Figure S2.10.4.2-b. The bulged section depth is defined as the protrusion of the sheet beyond its original position.

e) The following guidelines apply where repair is required.

- 1) Plate may only be repaired using a flush patch, in accordance with NBIC Part 3, Supplement 2.
- 2) Where a deformation is to be repaired, all portions of the deformity shall be repaired. For example, for contiguous-continuous bulging where only some bulges exceed allowable deformation, the entire bulged area shall be repaired (See Figure S2.10.4.2-b). Unrelated bulges separated by non-deformed plate shall be independently evaluated.

FIGURE S2.10.4.2-b

CONTINUOUS BULGING (PILLOW/MATTRESS-EFFECTS) WHERE ONLY SOME BULGES EXCEED ALLOWABLE DEFORMATION

