

Date Distributed:



**NATIONAL BOARD  
TASK GROUP  
HISTORICAL BOILERS**

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

**MINUTES**

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Meeting of January 11, 2021  
San Antonio, TX

*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  
FAX: (614)847-1828

1. **Call to Order**

Chairman, Tom Dillon called the meeting to order at 8:16 AM (CST)

2. **Introduction of Members and Visitors**

Secretary, Jodi Metzmaier, took a roll call for all members and visitors. All members stated “here” and all visitors stated their name and their company/interest. The members and visitors are listed on the attendance sheet (**Attachment page 1**).

3. **Check for a Quorum**

With the members in attendance, both in person and remotely, a quorum was established.

4. **Awards/Special Recognition**

There were no awards/special recognitions given at this meeting.

5. **Announcements**

Secretary, Jodi Metzmaier made announcements to the group (**Attachment pages 2-3**).

6. **Adoption of the Agenda**

➤ Add new Item 21-20 – UT Thickness Check for a New Boiler

➤ Add Discussion Items:

- Item 20-69 (Locomotive) for discussion: Linn Modinger says he is waiting for Historical Approval so Locomotive can move forward with this item. The item is being added to the Historical agenda for review and approval.
- Visual Examination of through Stays and Diagonal Stays
- Working Pressure Calculations for curved stayed surfaces.

The above items were added to the agenda, and a motion was made to adopt the revised agenda. The motion was seconded and **unanimously approved**.

7. **Approval of the Minutes of the July 13<sup>th</sup>, 2020 Meeting**

A motion was made to approve the minutes from July 13, 2020 Historical Meeting. The motion was seconded and **unanimously approved**.

8. **Review of Rosters**

a. **Membership Reappointments**

- i. Mr. Jim Getter, Mr. Frank Johnson, Mr. Dennis Rupert, Mr. Matt Sansone, Mr. Rob Troutt, and Mr. Mike Wahl all have memberships to the group that expire on January 30, 2021.

Chairman, Mr. Dillion, addressed the members up for reappointment, and they have all confirmed they would like to remain members of the Historical Task Group. A motion was made to reappoint all members. The motion was seconded, and **unanimously approved**.

b. **Membership Nominations**

- i. Mr. Don Kinney (Jurisdictional Authorities) and Mr. Kevin Anderson (Users) are interested in becoming members of the Historical Boilers Task Group.

Kathy Moore spoke on behalf of Don Kinney stating she would like him to become a member, and explained that the state of NC has adopted NBIC Part 2, Supplement 2 and has a Historical Boiler Program. She thinks he would be great to have on the Task Group. Mr. Kinney then spoke on his behalf explaining why he would like to become a member and how he would be an asset to the group.

Mike Wahl & Tom Dillon have nominated Kevin Anderson to become a member of the Historical Boilers Task Group. Mr. Anderson then spoke on his behalf. He explained his background, how he would be an asset to the Task Group, and why he would like to become a member of the Task Group.

A motion was made to accept both nominees as members of the Historical Boilers Task Group. The motion was seconded and **unanimously approved**.

**c. Officer Nominations**

- i. Mr. Jim Getter's term as Vice Chair ends on January 30, 2021. He is eligible for reappointment to the position as it is only his first term as Vice Chair.

Mr. Getter has confirmed he would like to remain Vice Chair of the Historical Task Group. A motion was made to keep Mr. Getter as the Vice Chair. The motion was seconded, and **unanimously approved**.

**9. Action Items**

<b>Item Number: 19-84</b>	<b>NBIC Location: Part 2, S2.10.7</b>	<b>No Attachment</b>
<b>General Description:</b> Inspecting riveted joints for failure		
<b>Subgroup:</b> SG Historical		
<b>Task Group:</b> F. Johnson (PM), M. Wahl & Robert Underwood		
<b>Explanation of Need:</b> The text covers cracks parallel to a longitudinal joint, but there is no text covering inspection of plate material around a rivet.		
<b>January 2021 Action:</b>		
<b>Progress Report:</b> Mr. Underwood presented this item to the group. He explained the background of this item, and the need for the additional text and figure. Mr. Underwood read through the proposal and addressed questions from the task group. During discussion it was determined that the figures need to be revised to be specified which figure belongs with which method of failure. There were also a few changes made to the text of the proposal during the group's discussion. Mr. Wahl and Mr. Jowett will work on the figures and try to have the revised figures to present at the next meeting.		
<b>Add Chris Jowett to the Task Group.</b>		

<b>Item Number: 20-25</b>	<b>NBIC Location: Part 3, S2.13</b>	<b>No Attachment</b>
<b>General Description:</b> Repair Procedure for Fire Boxes		
<b>Subgroup:</b> SG Historical		
<b>Task Group:</b> M. Wahl (PM), Robin Forbes, T. Dillon, L. Moedinger & F. Johnson		
<b>Explanation of Need:</b> 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.		
<b>January 2021 Action:</b>		
<b>Progress Report:</b> Mr. Moedinger discussed this item saying it may be the same as Item 20-69. The group had a discussion of whether or not this item needed to be combined with Item 20-69 to become one item that will need to go through both the Locomotive and Historical Groups. Mr. Troutt spoke stating he would prefer to not have repeat verbiage in both Locomotive and Historical Supplements in Part 3 of the NBIC. The group agreed that the text should not be duplicated. Historical group will readdress this item once item 20-69 has been approved by the Locomotive Task Group. At that point the Historical Task Group will revise or add any wording necessary to have a reference to the Locomotive Supplement in the Historical Supplement of Part 3 of the NBIC.		

Item Number: 20-26	NBIC Location: Part 2, S2	No Attachment
<p><b>General Description:</b> Concern for Historical Boiler Inspections Nationwide</p> <p><b>Subgroup:</b> SG Historical  <b>Task Group:</b> T. Dillon (PM), R. Underwood, L. Moedinger, M. Wahl, D. Rupert, K. Anderson &amp; J. Wolf</p> <p><b>Explanation of Need:</b> Currently Jurisdictions are not uniform in adoption of how and when inspections are performed.</p>		
<p><b>January 2021 Action:</b></p> <p><b>Progress Report:</b> Mr. Dillon has asked Mr. Anderson to present this item. Mr. Anderson presented this item, and the explanation of need for training on Historical Boiler Inspections. Mr. Troutt recommended Mr. Anderson attend a Chiefs meeting to present this information and get an idea of where the Chiefs stand on this issue. The group discussed the difference between licensed vs educational training, training programs for locomotive with Mr. Modinger, and how some Jurisdictions conduct training for Historical Boiler Inspections. The group again expressed their desire for a training course by the National Board. Mr. Amato stated he will reach out to the Jurisdictional Liaison to get some more information/input from the Jurisdictions on how they want to move forward. Mr. Rose uploaded a few documents used for training in Alberta to the cloud for the task group to reference.</p> <p>It was discussed that this item is more of a “discussion item” as opposed to an “action item”, as the group does not believe anything will be added to the NBIC based on this item. They do not want to close the item because they want to be able to discuss the item at each meeting. Once the group has more information as to what action will be taken with regards to Historical Boiler Inspection training, they will close the item with no action.</p>		

**New Items:**

Item Number: 20-93	NBIC Location: Part 2	No Attachment
<p><b>General Description:</b> MAWP in the ogee curve</p> <p><b>Subgroup:</b> SG Historical  <b>Task Group:</b> None assigned.</p> <p><b>Explanation of Need:</b> There is some confusion of what is a stayed flat surface and what to do with the ogee curve.</p>		
<p><b>January 2021 Action:</b></p> <p>Mr. Dillon presented a power point to discuss the MAWP in the ogee curve. Mr. Modinger stated that this information may already exist in ASME Section I, PL 27.4. This section of the ASME code was brought up and reviewed by the group. Dr. Bryce stated there is information in the NBIC that addresses this in Part 2, S2.6.3. After much discussion, the Historical group determined that ASME Section I, PL27.4 is the applicable code to use for calculating the ogee curve. The group believes the inspector that brought this information up was using the calculation for a flat stayed surface instead of using the guidance given in NBIC Part 2, S2.6.3.4, which should be used for ogee curves. The note in this section states "Areas where plates have been formed to make corners whereby the radiuses may have thinned due to the forming process shall not be considered in calculating MAWP."</p> <p>A motion was made to <b>close this item with no action</b>, the motion was seconded. Mr. Dillon will reach out to the Inspector that brought this up to him to give him this information. The motion was <b>unanimously approved</b>.</p>		

<b>Item Number: 21-20</b>	<b>NBIC Location: Part 2, S2.7.3.2</b>	<b>Attachment Page 4</b>
<b>General Description:</b> UT Thickness Check for a New Boiler		
<b>Subgroup:</b> Historical		
<b>Task Group:</b> Trevor Seime (PM)		
<b>January 2021 Action:</b>		
<p>This item was added to the agenda prior to the adoption of the agenda by Mr. Seime.</p> <p>Mr. Seime presented this item to the task group. A proposal was created to add wording to S2.7.3.2. The wording being proposed was removed from the proposal for item 19-98, which was then approved at the July 2020 meeting. The Historical group feels this information is important, so they have worked on the wording in hopes to get it pushed through SC Inspection and Main Committee. A motion was made to accept the proposal. The motion was seconded and <b>unanimously approved</b>.</p>		

**Discussion Items:**

<b>Item Number: 20-69</b>	<b>NBIC Location: Part 3, S1.2.11.5</b>	<b>No Attachment</b>
<b>General Description:</b> Welds Across Riveted Lap Seams		
<b>Subgroup:</b> Locomotive		
<b>Task Group:</b>		
<b>Explanation of Need:</b> Clarify wording regarding weld taper and provide a cleaner figure to better illustrate the repair. Historical Boilers is considering adding the same text to their Section.		
<b>January 2021 Action:</b>		
<p>This item was added to the agenda for discussion prior to the adoption of the agenda by Mr. Modinger. The working document created by locomotive under this action item was presented to the Historical group by Mr. Modinger for review and discussion. The group made a few changes to the wording in the document. Mr. Modinger agreed with the changes made by the Historical Task Group. The revised document will be presented to Locomotive Task Group to review and potentially pass through to SC R&amp;A.</p>		

**Visual Examination of through Stays and Diagonal Stays.**

Dr. Bryce initiated the conversation with the group for this topic. He is proposing the group open an item to address repair procedures for through stays and diagonal stays. After discussion a task group was formed (Dave Rose (PM), R. Underwood, Robin Forbes, C. Jowett, and F. Johnson). Mr. Rose will create a new item for this on the Business Center.

**Working Pressure Calculations for curved stayed surfaces.**

Dr. Bryce initiated the conversation with the group for this topic. He is proposing the group open an item to address working pressure calculations for curved stayed surfaces. After discussion a task group was formed (Mike Wahl (PM), R. Bryce, and T. Dillon). Mr. Wahl will create a new item for this on the Business Center.

**10. Future Meetings**

Chairman, Tom Dillon discussed the future meeting with the group.

- July 12<sup>th</sup>-15<sup>th</sup>, 2021 – Cincinnati, OH - Hilton Netherlands in Cincinnati, OH
- January 10<sup>th</sup>-13<sup>th</sup>, 2022 – TBD

**11. Adjournment** – Motion and second made to adjourn the meeting at 12:41 pm (CST).

Respectfully submitted,

A handwritten signature in black ink that reads "Jodi Metzmaier". The signature is written in a cursive style with a large initial "J" and a long, sweeping underline.

Jodi Metzmaier  
Task Group Historical Secretary

## Historical Attendance

<b>MEMBERS:</b>	<b>Interest Category</b>	<b>HERE</b>	<b>In Person</b>	<b>Remote</b>	<b>Not In Attendance</b>
Tom Dillon	General Interest	X	X		
Jim Getter	Manufacturers	X		X	
Frank Johnson	Users	X	X		
Chris Jowett	National Board Certificate Holder	X	X		
Kathy Moore	National Board Certificate Holder	X		X	
David Rose	Users	X		X	
Dennis Rupert	General Interest				X
Matt Sansone	Jurisdictional Authorities	X		X	
Trevor Seime	Jurisdictional Authorities	X	X		
Rob Troutt	Jurisdictional Authorities	X	X		
Rob Underwood	Authorized Inspection Agencies	X		X	
Mike Wahl	General Interest	X			
Jon Wolf	Authorized Inspection Agencies	X		X	

<b>VISITORS:</b>	<b>Company/Title/Intereset</b>	<b>HERE</b>	<b>In Person</b>	<b>Remote</b>
Adrian Gibbs	Boiler Inspector with Wisconsin	X		X
Daniel Rivera				X
Don Kinney	Chief of NC	X		X
Ernest Brantley	Member of NBIC Subgroup & Subcommittee Inspection		X	
Kevin Anderson	Historical Steam Enthusiast	X	X	
Linn Modinger	Member of NBIC Task Group Locomotive	X		X
M.A. Shah	ABM Industrial Services Inc. located in Canada			X
Michael Carlson	Chief of WA	X		X
Michael Horton	Michigan Historical Steam Engine Association	X		X
Robert Bryce	Boiler Standard for Canada	X		x
Robin Forbes	Owner - Member of Herritage Boiler Association in BC Canada	X		x
Korey Anderson	SD - Steam Engine Enthusiast	X		
Kenneth Griffis	Historical Steam Engine Enthusiast	X	X	
Chris Derks	Mechanical Safety Consultant with WI	X		X
Joel Amato	NBBI Staff	X	X	
Luis ponce	NBBI Staff	X	X	
Gary Scribner	NBBI Staff		X	

# Announcements

- Zoom Notes:
  - Make sure all participants have their actual name on their zoom account.
  - Request attendees to add an “M” for Member, “V” for Visitor, or “S” for Staff at the end of their name
    - Click “Participants”, click “more” next to your name, click “rename,” and add the applicable letter.
  - Make Chair “co-host” if they are signed in on zoom.
  - Remind everyone to stay muted until they would like to speak.
    - We can use “raise hand” feature if needed.
  
- The National Board will be hosting a reception for committee members and visitors on Wednesday, January 13, from 5:30 PM - 7:30 PM at Michelinos Restaurant, located at 521 Riverwalk, San Antonio. Mexican cuisine will be served.
  
- Breakfast (7am) and Lunch (11:30 -12:30) will be provided to NBIC Committee members and visitors on Thursday in Magnolia/Blue Bonnet.
  
- We will take a short break around 9:30-10:00 for task groups to work on items, and to allow time for coffee/snack/beverage break.
  - Coffee/snacks/beverages will be located on the 3<sup>rd</sup> floor
  
- Meetings schedule, meeting room layouts, and other helpful information can be found on the National Board website under the National Board Inspection Code tab → NBIC Meeting Information.
  
- If the meeting ends early use the extra time to work with your task groups.
  - This can be done through Zoom/WebEx if needed.
  
- Remember to add any attachments that you’d like to show during the meeting, (proposals, reference documents, power point, etc.) to the cloud prior to the meeting.
  - If needed we can go over how to do this.
  
- Always submit attachments in word format showing “strike through/underline”
  - Does anyone need to know how to do this?
  
- Naming format reminder:
  - *Item number - person who made the revision - date update*



## Announcements

- 2021 NBIC will be available for purchase on July 1, 2021, and will become mandatory on January 1, 2022.
- **We will do a voice voting for the negatives, not voting, and abstentions only.** Once the motion and second have been established, the chair will ask for any negatives, not voting and abstentions.
- **For new member voting,** we will let the nominees speak on their behalf, and then send them to a “breakout room” while the group has a discussion and vote. Once the vote is completed, the nominees will be allowed back into the main meeting “room”.
- As a reminder, anyone who would like to become a member of a group or committee:
  - must attend at least 2 meetings prior to being put on the agenda for membership consideration. The nominee will be on the agenda for voting during their 3<sup>rd</sup> meeting.
  - The nominee should submit the formal request along with their resume to Jonathan PRIOR TO the meeting. [nbicsecretary@nationalboard.org](mailto:nbicsecretary@nationalboard.org)
  - If needed, we can also create a ballot for voting on a new member between meetings. To do this, you will need to contact Jonathan.

Item 21-20

Revision Date: January 11, 2021

### S2.7.3.2 SUBSEQUENT INSPECTIONS

- a) Boilers that have completed the initial inspection requirements begin the subsequent inspection intervals. The following inspection intervals should be used unless other requirements are mandated by the Jurisdiction.
  - 1) Interval #1 — One year following initial inspection. Inservice inspection per NBIC Part 2, S2.7.1.
  - 2) Interval #2 — Two years following initial inspection. Visual inspection per NBIC Part 2, S2.5.2.2.
  - 3) Interval #3 — Three years following initial inspection. A pressure test per NBIC Part 2, S2.6.1.
- b) After interval #3 is completed, the subsequent inspection cycle continues with interval #1.
- c) UT thickness testing per NBIC Part 2 S2.6.2 shall be performed at 5 year intervals, or at a shorter interval if deemed necessary by the Jurisdiction.
  - 1) Recurring UT thickness testing may be extended by up to 1 cycle (5 years) where the owner can demonstrate the following:
    - a. Two prior consecutive NDE reports following this cycle, spanning a minimum of 5 years, showing that current practice permits a longer NDE cycle;
    - b. Storage and care of the boiler in adherence with the applicable sections of S2.13.1 STORAGE METHODS; and
    - c. Operating records (ie; visual images and log book records showing correct water treatment) shall be reviewed annually during the extension period indicating no change to boiler condition.
  - 2) New construction ASME Section I boilers may not be subject to UT thickness testing for 20 years from the date of manufacture, unless a shorter interval is deemed necessary by the Jurisdiction.