



*THE NATIONAL BOARD
OF BOILER AND PRESSURE VESSEL INSPECTORS*

Date Distributed: August 1, 2022

NATIONAL BOARD INSPECTION CODE TASK GROUP HISTORICAL BOILERS

MINUTES

Meeting of July 11, 2022
Indianapolis, IN

These minutes are subject to approval and are for the committee's use only.
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The National Board of Boiler & Pressure Vessel Inspectors
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1. Call to Order

Chair, Trevor Seime called the meeting to order at 8:02 am (EST)

2. Introduction of Members and Visitors

Secretary, Jodi Metzmaier took a roll call of the members. Mr. Seime then asked all members and visitors, in person and virtual, to state their name and company/interest.

All attendees are listed on **attachments pages 1-3**.

3. Check for a Quorum

A quorum was established with 12 of the 14 members in attendance.

4. Awards/Special Recognition

None.

5. Announcements

Ms. Metzmaier made announcements to the group. The announcements included an overview presentation of the letter balloting procedure. Mr. Troutt and Mr. Galanes joined the conversation regarding the letter balloting procedure.

6. Adoption of the Agenda

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

7. Approval of the Minutes of the January 17, 2022, Meeting

A motion was made to approve the minutes from the January 17, 2022, meeting. The motion was seconded and unanimously approved.

8. Review of Rosters

a. Membership Reappointments

- i.** Mr. David Rose and Mr. Robert Underwood's memberships are set to expire prior to the next NBIC meeting.

Mr. Rose stated he would like to remain on the Historical TG. A motion was made to reappoint Mr. Rose to the Historical TG. The motion was seconded and unanimously approved.

Mr. Underwood stated he will not be renewing his membership to the Historical TG. He will also be stepping down as a member of any of the working task groups for Historical that he is on.

Mr. Jon Ferreira from Hartford Steam Boiler Inspection and Insurance Company expressed his interest in becoming a member of Historical TG. He will submit his resume to the NBIC Secretary to be voted on at the next meeting.

b. Membership Nominations

- i.** Mr. Mike Carlson (Jurisdictional Authorities) has expressed interest in becoming a member of the task group.

Mr. Carlson spoke to the Historical TG stating his interest in the TG. Mr. Carlson was put into a breakout room, and the TG discussed his nomination. Mr. Seime spoke on behalf of Mr. Carlson. The TG reviewed Mr. Carlson's resume. A motion was made to recommend Mr. Carlson become a member of the Historical TG. The motion was seconded and unanimously approved.

c. Officer Nominations

None.

9. 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 & 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 2022 Action: PROGRESS REPORT: Mr. Dillon spoke on this item stating they are still waiting on locomotive. He said the Locomotive TG was close to closing their item on this subject, and then the Historical TG would make the decision to refer to the Locomotive Section or add it to the Historical section of NBIC Part 3.		

Item Number: 20-26	NBIC Location: Part 2, S2	No Attachment
General Description: Concern for Historical Boiler Inspections Nationwide		
Subgroup: SG Historical		
Task Group: T. Dillon (PM), R. Underwood, L. Moedinger, M. Wahl, D. Rupert, K. Anderson, M. Sansone, & J. Wolf		
Explanation of Need: Currently Jurisdictions are not uniform in adoption of how and when inspections are performed.		
July 2022 Action: PROGRESS REPORT: Mr. Seime spoke on this item. He stated he met with NB staff (Kimberly), and she really liked the idea of creating a training module, but there were setbacks internally. She is hoping to have this fast tracked and have it out by October 2022. Mr. Seime has asked the group to send him pictures of various things they want to have in the training module. He would like to have these pictures within the next month. He will then get them to training to create the training module. Mr. Rupert stated they may be able to take some of the photo's directly from the NBIC. The TG members will go through a document Mr. Seime sent out listing the different points they want to cover. The TG members will work through the list and try to come up with a picture/example for each listing. NB staff is relying on the Historical TG to help create the training module, as none of the NB staff members are experts on these subjects. The TG also discussed Form C-1, which is currently in NBIC Part 2, Supplement 2. They discussed how to make this form, and the rest of Supplement 2, more accessible to owners/operators.		
TASK GROUP UPDATE: Add Mike Horton. Remove R. Underwood.		

Item Number: 21-03	NBIC Location: Part 2, S2	No Attachment
General Description: Inspection of through stays and diagonal stays		
Subgroup: Historical		
Task Group: D. Rose (PM), R. Bryce, R. Forbes, C. Jowett		
Submitted by: David Rose		
Explanation of Need: The code is silent on the inspection of through stays and diagonal stays. Additionally, new repair methods are available from ASME that can be incorporated.		
July 2022 Action: PROGRESS REPORT: Mr. Rose spoke on this item, stating he went through the comments from the LB and has incorporated many of the comments into the proposal, but it is not ready to present.		

Item Number: 21-09	NBIC Location: Part 3, S2	No Attachment
General Description: Incorporate new repair methods for through and diagonal stays		
Subgroup: Historical		
Task Group: D. Rose (PM), R. Bryce, R. Forbes, C. Jowett		
Submitted by: David Rose		
Explanation of Need: The code is silent on the inspection of through stays and diagonal stays. Additionally, new repair methods are available from ASME that can be incorporated.		
July 2022 Action: PROGRESS REPORT: Mr. Rose spoke on this item, stating he went through the comments from the LB and has incorporated many of the comments into the proposal, but it is not ready to present.		

Item Number: 21-34	NBIC Location: Part 2, S2	No Attachment
General Description: Working Pressure Calculations for Curved Stayed Surfaces		
Subgroup: Historical		
Task Group: Mike Wahl (PM), R. Bryce, & T. Dillon		
Background: In January 2021, 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		
July 2022 Action: PROGRESS REPORT: Dr. Bryce stated they have not had much progress on the proposal at this time, but they are still working on it.		

General Description: Alternative Weld Joint for Historical Boiler Barrel Replacement

Subgroup: Historical

Task Group: R. Underwood (PM), C. Jowett, F. Johnson, T. Dillon, M. Wahl, R. Bryce

Submitted by: Robert Underwood

Background: Historical boilers were manufactured with riveted joints, however in many cases it's more practical to use welded joints when restoring historical boilers. However, ASME Section I does not allow fillet welded lap joints when connecting replacement barrels to the wrapper sheet. The strength of a double fillet welded lap joint has proven to be equal, if not greater in strength than riveted joint designs and this proposal will introduce this type of joint as an alternative to riveted lap joints. This proposal would introduce double welded lap joint connections of the barrel to wrapper sheet in lieu of riveted joints. It is not practical in many cases for repair firms to connect this joint by riveting.

July 2022 Action:

Mr. Underwood stated there had not been a lot of progress on this item at this point. He shared the document with the code changes that are currently a work in progress. He also stated his concerns relating to double fillet welded lap joints. These joints are not permitted in unstayed areas of the boiler in ASME Section I. Further, ASME Section VIII, Div. 1 assigns a joint efficiency of 55% which is about 10% less than a double riveted lap joint. Mr. Jowett and Dr. Bryce also addressed the group with similar comments. The group decided there would be too much work to determine if the welded lap joint would be equivalent or stronger than a double riveted joint; therefore, a motion was made to **close this item with no action**. The motion was seconded and unanimously approved.

10. New Items

None.

11. Future Meetings

- January 2023 – Charleston, SC
- July 2023 - TBD

Mr. Seime discussed the future meetings with the group.

12. Adjournment

A motion was made to adjourn the meeting at 10:08 am (EST). The motion was seconded and unanimously approved.

Respectfully submitted,



Jodi Metzmaier
Historical Task Group Secretary

NBIC Task Group Historical Attendance - 7/11/2022

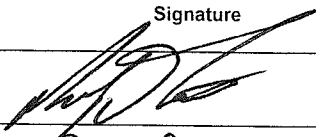
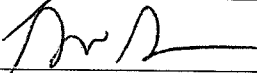
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Frank Johnson	fjkeck22@aol.com	Johnson Welding	419 386-8450	<i>Frank Johnson</i>
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Jim Getter	jim.getter@worthingtonindustries.com	Worthington Industries	614 840-3087	<i>Tom Dillon</i>
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Robert Underwood	robert_underwood@hsb.com	Hartford Steam Boiler	618 593-6231	<i>Robert Underwood</i>
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Michael Horton	mdhortonrg4642@aol.com	MHSEA	810-730-2610	<i>Michael Horton</i>
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Chris Jowett	cesrepairandrestoration@gmail.com	Construction Equipment Services	816-405-4256	
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Jodi Metzmaier	jmetzmaier@nbbi.org	NBBI	614-431-3341	<i>Jodi Metzmaier</i>
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PATRICK POLICK	PATRICK.POLICK@ILLINOIS.GOV	STATE OF ILLINOIS	217.836.0821	<i>Patrick Polick</i>
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Johnathon Bates	bates/ocal26@yahoo.com	Boilermakers	(912) 282-0999	<i>Johnathon Bates</i>
Richard Macintosh		IBIB	604 219-3589	<i>Richard Macintosh</i>

rmacintosh@boilermakers.org

NBIC Task Group Historical Attendance - 7/11/2022

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First Last	Email	Company	Phone #	Signature
Rob Trontt	Rob.Trontt@TPLR.texas.gov	Texas		
George Galanos	gggalanos@diamondtechnical services.com	DTS		

Historical TG Attendees - July 11, 2022

MEMBERS:	Interest Category	In Person	Remote	Not In Attendance
Trevor Seime - Chair	Jurisdictional Authorities	x		
Tom Dillon - Vice Chair	General Interest	x		
Jodi Metzmaier	NBIC Secretary	x		
Kevin Anderson	Users	x		
Jim Getter	Manufacturers	x		
Michael Horton	General Interest	x		
Frank Johnson	Users	x		
Chris Jowett	National Board Certificate Holder		x	
Don Kinney	Jurisdictional Authorities	x		
David Rose	Users		x	
Dennis Rupert	General Interest	x		
Matt Sansone	Jurisdictional Authorities			x
Rob Underwood	Authorized Inspection Agencies	x		
Mike Wahl	General Interest			x
Jon Wolf	Authorized Inspection Agencies	x		

VISITORS:	Company/Title/Intereset	In Person	Remote
Rob Troutt	Chair of BOT/State of Texas	x	
Jon Ferreira	The Harford Steam Boiler Inspection and Insurance Company	x	
Johnathon Bates	Boilermakers	x	
Richard MacIntosh	British Columbia	x	
Patrick Polick	State of Illinois	x	
Michael Carlson	State of Washington	x	
John King	Chubb Insurance	x	
Jeremy Smith	State of North Carolina		x
Robert Bryce	Boiler Standard for Canada		x
George Galanes	Chair of Main Committee	x	
Luis ponce	NBBI Staff	x	
K.R. Hough	General Interest		x
Robin Forbes	Owner Operator		x
James McGee	Guest of Kevin Anderson	x	
Don Patten	SG/SC Installation	x	
Ron Spiker	State of South Carolina	x	