



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

NATIONAL BOARD SUBGROUP HISTORICAL BOILERS

MINUTES

Meeting of July 15th, 2019
Kansas City, MO

*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

The meeting was called to order at 10:02 a.m. on July 15, 2019 by Chairman, Mr. Tom Dillon.

2. Introduction of Members and Visitors

The attendees are identified on the attendance sign in sheet (**Attachment Page 1**). With the attached attendance listing, a quorum was established.

3. Announcements

Announcements were made to the subgroup by Secretary, Ms. Jodi Metzmaier.

10 year service award pins were presented to Dennis Rupert, Frank Johnson, and Tom Dillon. Mike Wahl was also supposed to receive a 10 year service award pin; however, he was not present at this meeting. He will be presented with the pin at the next meeting he attends.

Ms. Metzmaier presented a power point presentation on the new letter balloting system on the National Board Business Center.

4. Adoption of the Agenda

- Add Kathy Moore as a nominee to the SG Historical
- Change the title of 19-53 to "Record Retention"

The above two items were added to the agenda. A motion was made to adopt the agenda as revised. The motion was seconded and unanimously approved.

5. Approval of the Minutes of January 14th, 2019 Meeting

A motion was made to approve the minutes from the January 2019 SG Historical meeting. The motion was seconded and unanimously approved.

6. Review of Rosters

a. Membership Reappointments

Mr. David Rose's membership to the group expires on July 31st, 2019.

Mr. Rose is interested in remaining a member of Subgroup historical. A motion was made to reappoint Mr. Rose. The motion was seconded and unanimously approved.

b. Membership Nominations

Mr. Tom Shernisky has attended 3 previous meetings and would now like to become a member of the SG Historical with an interest category or Authorized Inspection Agency (Resume - **attachment pages 2-5**)

Mr. Amato made a motion to hold Mr. Shernisky's nomination until next meeting. He was unsure if he was still supported by an AIA or if his interest category would be changing. The motion was seconded and unanimously approved.

Kathy Moore – Kathy has attended previous Historical meetings and is a member of the SG & SC Repairs and Alterations, she is now wanting to become a member of SG Historical with an interest category of Stamp Holder.

Mr. Amato has recommended Mrs. Moore become a member of the SG historical group. Mr. Moore spoke on her behalf, explaining to the SG why she would like to be a member and how her experience and knowledge would benefit the group. A motion was made to add Mrs. Moore to the SG historical group. The motion was seconded and unanimously approved.

c. Officer Nominations

There were no Officer nominations.

7. Action Items

Item Number: 19-21	NBIC Location: Part 3, S2.11 a)	Attachment Page 6
General Description: Additional wording to S2.11 a).		
Subgroup: SG Historical Task Group: None assigned		
Explanation of Need: The changes in the proposal were made in a document passed by SG Historical in July 2018, and somehow left off of the document that was submitted to R&A and to MC.		
July 2019 Meeting Action: Mr. Underwood presented this item to the Subgroup. After discussion, a motion was made to accept this item as presented. The motion was seconded and unanimously approved.		

Mr. Robert Bryce joined the meeting through conference call.

Item Number: 19-22	NBIC Location: Part 2, S2	No Attachment
General Description: Review of MAWP on Return Flue Boilers.		
Subgroup: SG Historical Task Group: M. Wahl (PM), J. Amato, R. Bryce & D. Rose		
Explanation of Need: From the Presentation, by Robert Bryce, the subcommittee feels this needs to be reviewed more in-depth. Continue the research and documentation on the MAWP of Return Flue Boiler. This was started with the documentation presented by Robert Bryce which is located in the NBIC cloud under January 2019 Historical Subgroup.		
July 2019 Meeting Action: Mr. Bryce presented a PowerPoint to the SG. After the PowerPoint the group had many questions and had discussion on the equations currently used and the need for the new equation. The group has decided they need to do more research before a final proposal can be made.		

Item Number: 19-23	NBIC Location: Part 2, S2.10.6	No Attachment
General Description: Remove Note from S2.10.6		
Subgroup: SG Historical Task Group: J. Amato (PM), D. Rose, T. Shernisky & D. Rupert		
July 2019 Meeting Action: Mr. Amato presented this item to the SG and explained his desire to remove the note listed in S2.10.6. Mr. Amato made a motion to approve the proposal. After discussion Mr. Amato retracted his motion, and made a new motion to keep the note in the text and close this item with no action. The motion was seconded and unanimously approved.		

Item Number: 19-27	NBIC Location: Part 3, S2.13.14.3-a	Attachment Page 7
General Description: Fusible Plug Repair Using Half Coupling Figure		
Subgroup: SG Historical Task Group: None assigned		
July 2019 Meeting Action: The Subgroup review the document presented. Few changes were made and a motion was made to accept the document as revised. The motion was seconded and unanimously approved.		

Item Number: 19-28	NBIC Location: Part 2, S2	No Attachment
General Description: External Pressure		
Subgroup: SG Historical		
Task Group: None assigned		
Explanation of Need: During the January 2019 NBIC meeting, Robert Bryce presented a power point explaining his reasoning for the need of a new equation for external Pressure. Based on this presentation the Historical Subgroup decided to open this item and assign a task group for further work.		
July 2019 Meeting Action: A motion was made to close this item with no action, as it is being addressed in item 19-22. The motion was seconded and unanimously approved.		

Item Number: 19-53	NBIC Location: Part 3, S2.12	Attachment Page 8
General Description: Record Retention		
Subgroup: SG Historical		
Task Group: None assigned		
Explanation of Need: Supplement 2 does not sufficiently address record retention as required by Part 3, 1.5.1(t).S2.12 states that owners "should" retain permanent records, but it is not mandatory. Paragraph 1.5.1(t) and Table 1.5.1 require all records be retained for 5 years.		
July 2019 Meeting Action: Mr. Robert Underwood presented a document showing the proposed changes to S2.12. A motion was made to accept the changes as presented. The motion was seconded and unanimously approved.		

8. Future Meetings

Chairman, Tom Dillon, reviewed the future NBIC meetings with the Subgroup.

- January 13th -16th, 2020 – San Diego, CA
- July 13th -16th, 2020 – Louisville, KY

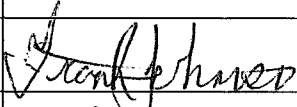

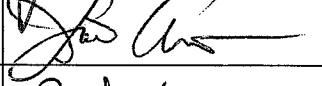
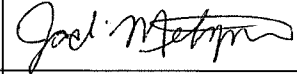

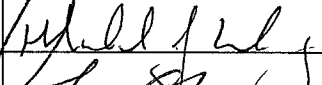
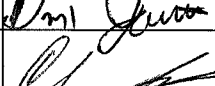

9. Adjournment

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

Respectfully submitted,



Jodi Metzmaier
SG Historical Secretary

NBIC Task Group Historical Attendance - 7/15/2019					
First Last	Email	Company	Phone #	Signature	Attending Reception?
Mike Wahl	mikew@midstal.com	WHSEA	920 972-7308		
Frank Johnson	fjkeck22@aol.com	Johnson Welding	419 386-8450		
Dennis Rupert	rupercull@comcast.net	MUSEA	517 398-0152		
Tom Dillon	dillon16hp@gmail.com	MSEA	612 308-9560		
Jim Getter	jim.getter@worthingtonindustries.com	Worthington Industries	614 840-3087		✓
Joel Amato	joel.amato@state.mn.us	State of Minnesota	651 284-5137		✓
Robert Underwood	robert_underwood@hsb.com	Hartford Steam Boiler	618 593-6231		
David Rose	dr3747@telus.net	T&T Inspections	780 217-8175		✓
Mark Jordan	mark.jordan@ky.gov	Commonwealth of Kentucky	502 573-1708		
Jodi Metzmaier	jmetzmaier@nationalboard.org	The National Board	614 888-8320		✓
Jon Wolf	jon.wolf@zurichna.com	Zurich	920 253-8781		✓
Robby Troutt	rob.troutt@tdlr.texas.gov	State of Texas	512 539-5720		✓
Matthew Sansone	matthew.sansone@labor.ny.gov	NYS Department of Labor	518 457-2722		
Rick Sturm	rsturm@utah.gov	state of Utah	801-554-9600		✓
Kathy Moore	kathymore@joemoorecompany.com	JOE MOORE COMPANY	919-606-7472		✓
MICHAEL QUISENBECY	michael@allentri.com	ATSM, INC.	(806) 316-7174		✓
Timothy McBee	Timothy.McBee@TuvSud.com	ARISE	217-412-9300		
David Jowett	DJowett61@aol.com	Cost Equip Solv Inc	816-230-1514		
Chris Jowett	Cesrepairandrestoration@gmail.com	Constructing Equipment Services	816-230-1514		

Senior Project Manager

Education
 Graduated from Weir Senior High School
 1985
 Pittsburgh Technical Institute
 Associates in Mechanical CADD 1987
 University of Phoenix BSBM 2003
 Retired USAF E-7
 VFW & American Legion Member
 Masonic Lodge #2 Wellsburg, WV

Registrations/Certifications
 National Board Commission # 11413
 Licensed in 24 Jurisdictions

Professional Affiliations
 Professional Affiliations/Memberships
 ASME CSD-1 Alternate Committee
 ASME Member

Location
 Pittsburgh PA

Years with Bureau Veritas
 7 years
 Total Years of Experience
 26 years of experience

Contact information:

Thomas J Shernisky

Senior Project Manager
 OneCIS Insurance
 a Bureau Veritas North America, Inc.
 Company
 Foster Plaza XI
 790 Holiday Dr Suite 2
 Pittsburgh, PA 15220

Direct: 412-503-4115
 Mobile: 304-374-5165
 Fax: 412-921-8836
thomas.shernisky@us.bureauveritas.com

Personal information: email:
hdski67@gmail.com
 Phone; 304-479-8016

As Senior Project Manager responsibilities include technical direction on all jurisdictional code, national codes e.g., NFPA, API, ASME, National Board to all inspectors and clients. Managing the QA/QC Program for PVJ and keeping inspectors training requirements up-to-date. Managing accounts that are written and creating Service Instructions for those accounts.

Additional responsibilities include managing inspectors in the field, assist the Director of Jurisdictional Service in any way needed. To include but limited to writing of new business, marketing Bureau Veritas services, visiting agents, clients and brokers. Also required to make production numbers by assisting with the budget and having inspectors manage their work load efficiently and accurately to meet budgets monthly.

As Project Manager for OneCIS Insurance, responsibilities include technical direction on all jurisdictional code, national codes e.g., NFPA, API, ASME, National Board to all inspectors and clients. Managing the QA/QC Program for PVJ and keeping inspectors training requirements up-to-date.

Additional responsibilities include managing inspectors in the field, assist the Director of Jurisdictional Service in any way needed. Managing accounts that have been written and creating Service Instructions for those accounts.

Previous job responsibilities for Bureau Veritas and others:

Inspected construction and installation authorized by permits for compliance with applicable codes, laws rules and regulations pertaining to various types of steam boilers and shops including steam generators, water tube boilers, fire tube boilers, and low pressure steam boilers. Reviewed construction calculations, allowable working pressures, tensile strengths, stress values, and corrosion allowances. Inspected manufacturing shops, nuclear reactors and nuclear code shops. Inspected various types of unfired pressure vessels including air tanks, digesters, vulcanizers, heat exchangers, jacketed kettles, retorts, hot water tanks, hydro-pneumatic tanks, diffusers, refrigeration vessels, and hospital sterilizers which may contain pressurized air, oil and water, air and oil, steam, manufactured gas, or chemicals, and stores energy for power, processing

or heating purposes.

Responsible for inspections of boilers and unfired pressure vessels within my assigned territory. Primary duties involve the in-service inspection of boilers and unfired pressure vessels to assure compliance with Alaska Statutes, the ASME Boiler and Pressure Vessel Code and the National Board Inspection Code. Responsible for inspection of new boiler and pressure vessel installations, as well as the required inspections for boilers and pressure vessels altered or repaired within the state. These duties require me to be aware of all the annual changes to the ASME and NB Codes and be involved with the review of manufacturing and repair company Quality Control Systems.

Act as an advisor and consultant to engineers, architects and repair concerns regarding boiler and pressure vessel codes and standards. During the course of field inspections, at times may be required to perform Certificate of Fitness and construction contractor licensing inquiries and issue cease and desist orders to enforce licensing statutes.

Responsible for the technical field inspection of boiler, unfired pressure vessels, machinery and miscellaneous electrical apparatus on behalf of my employer for the purpose of public safety code regulation & risk control. I was responsible for completing boiler & machinery risk assessments on facilities in the medical, aerospace, agricultural, and utility industries. Clients consisted of Cargill, Archer Daniels Midland, Honeywell International and Reliant Energy.

Responsible for the technical field inspection of boiler, unfired pressure vessels, machinery and miscellaneous electrical apparatus on behalf of my employer for the purpose of public safety code regulation & risk control. Responsible for investigating boiler & machinery claims filed by insured parties of my employer within my assigned territory. I was also responsible for account management duties on large accounts such as Allegheny Technologies, Incorporated, and Wheeling Pittsburgh Steel. Duties consisted of monitoring expenses on the account, working closely with the client and the broker on the account to strengthen relationships, preparing an account management plan on how the client's locations were to be serviced. I assisting the underwriter on the accounts in pricing the

account accordingly by developing the proper probable maximum loss and maximum foreseeable loss data so as the proper amount of facultative reinsurance could be retained.

Project Experience

Loss Reduction/Account Manager

Allegheny Technologies Incorporated

1/2004 – 7/2005

Boiler & Machinery Account Manager

Loss Reduction/ Account Manager

Wheeling Pittsburgh Steel Corp.

1/2004 – 7/2005

Boiler & Machinery Account Manager

Loss Reduction/Account Manager

Weirton Steel Corp.

1/2004 – 7/2005

Boiler & Machinery Account Manager

Employment History

OneCIS Insurance Co. – Pittsburgh, PA

Senior Project Manager

2010 to Present

State of Oregon – Portland OR.

Boiler & Pressure Vessel Inspector

2009 to 2010

Inspections

State of Alaska – Anchorage, AK

Boiler & Pressure Vessel Inspector I

2007 to 2009

Inspections

CNA Insurance Co.- Pittsburgh, PA

Risk Control Consultant & Account Manager

1996 – 2001 then 2004 to 2005

Authorized Inspector, Account Management, Inspections, Quality Assurance and Control

Publications and Presentations

LCDSV-WBIA Meeting 2017

Item 19-21: Part 3, S2.11 a)**S2.11 NONDESTRUCTIVE EXAMINATION AND TESTING**

- a) The Inspector may require nondestructive examination (RT, PT, MT, UT, and VT) as necessary to ensure satisfactory welded repairs and alterations have been accomplished. (See NBIC Part 3, 4.2)
- b) The nondestructive examination (NDE) requirements, including technique, extent of coverage, procedures, personnel qualification, and acceptance criteria, shall be in accordance with the original code of construction for the pressure-retaining item. Weld repairs and alterations shall be subjected to the same nondestructive examination requirements as the original welds.
- c) Where the original code of construction is unknown or the NDE method is not possible or practicable, alternative NDE methods may be used. These methods shall be acceptable to the owner, the Inspector and where required, the Jurisdiction of the pressure-retaining item.
- d) NDE methods used shall be suitable for providing meaningful results to verify the integrity of the repair and or alteration.
- e) Exclusive use of visual examination (VT) for repair inspection is only permitted when following the requirements of Part 3, 4.4.1 e).
- f) The integrity of repairs and alterations shall be verified by examination or test. (See NBIC Part 3, 4.4)

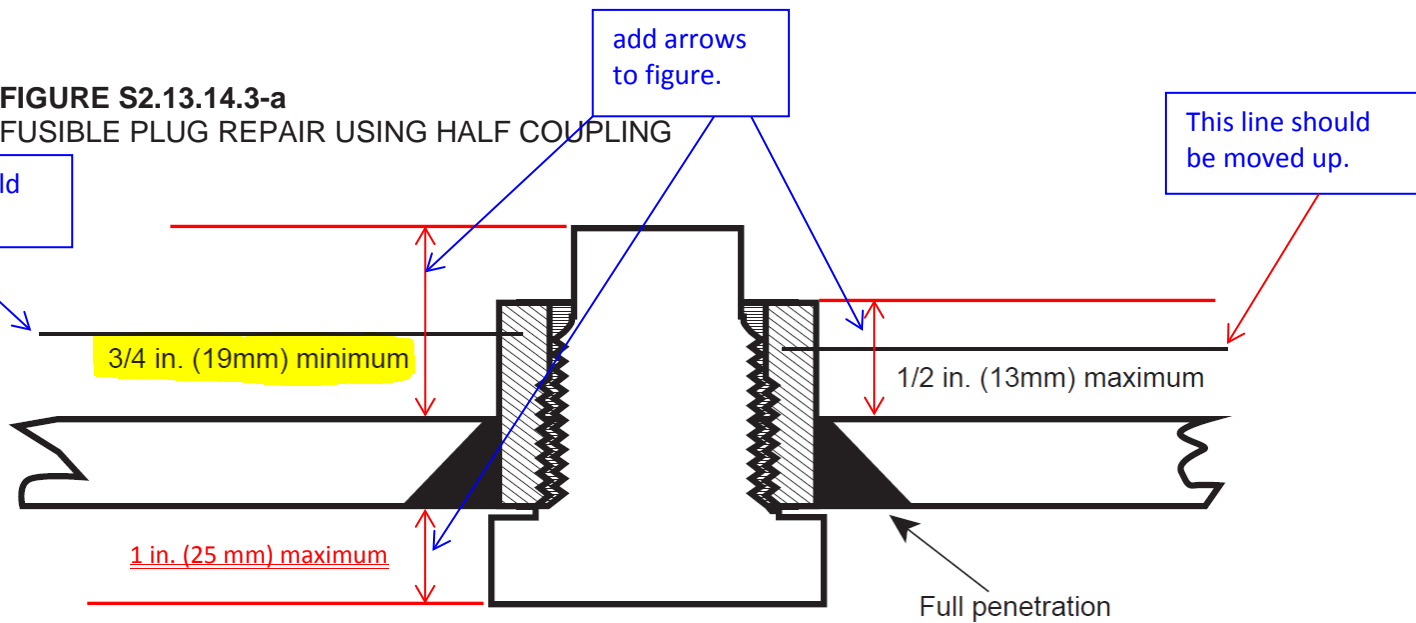
REFERENCE: NBIC Part 3, 4.2

<p>4.2 NONDESTRUCTIVE EXAMINATION</p> <p>a) The nondestructive examination (NDE) requirements, including technique, extent of coverage, procedures, personnel qualification, and acceptance criteria, shall be in accordance with the original code of construction for the pressure-retaining item. Weld repairs and alterations shall be subjected to the same nondestructive examination requirements as the original welds. Where this is not possible or practicable, alternative NDE methods acceptable to the Inspector and the Jurisdiction where the pressure-retaining item is installed, where required, may be used.</p> <p>b) NDE personnel shall be qualified and certified in accordance with the requirements of the original code of construction. When this is not possible or practicable, NDE personnel may be qualified and certified in accordance with their employer's written practice. ASNT SNT-TC-1A, <i>Recommended Practice Non-destructive Testing Personnel Qualification and Certification</i> (2006 edition), or ANSI/ASNT CP-189, <i>Standard for Qualification and Certification of Nondestructive Testing Personnel</i> (2006 edition), shall be used as a guideline for employers to establish their written practice. Provisions for training, experience, qualification, and certification of NDE personnel shall be described in the "R" Certificate Holder's written quality system.</p>
--

S2.13.14.3 REPAIR OF FUSIBLE PLUG OPENING

- a) Threaded holes with damaged threads may be repaired by re-tapping or weld buildup and rethreading the threads shall be removed prior to welding.
- b) Threaded opening with damaged threads that ~~can not~~cannot be repaired by re-tapping or re-threading should be repaired by welding a flush patch or half coupling connection to the sheet.
- c) The half coupling connection shall be such a size as to not interfere with proper operation of the fusible plug. The half coupling shall be welded flush to the fire side using a full penetration weld. The half coupling must not project higher than 1/2 inch (13 mm) from the water side (See Figure NBIC Part 3, S2.13.14.3-a).
- d) Flush patch type repairs are to be installed in accordance with S2.13.9.3 and S2.13.10.3 (See Figure S2.13.14.3-b).
- e) A fusible plug shall be of such length that when installed it shall project at least 3/4 inch (19 mm) on the water side of the plate, tube, or flue. It shall extend through the plate, tube, or flue on the fire side as little as possible but not more than 1 inch (25 mm).

FIGURE S2.13.14.3-a
FUSIBLE PLUG REPAIR USING HALF COUPLING



NB19-53

6/25/19

Request for NBIC Part 3, Supplement 2 Revision

Robert V. Underwood
The Hartford Steam Boiler Inspection & Insurance Company

Purpose	To address record retention requirements in Supplement 2.
Scope:	Revise S2.12 to refer to Part 3, 1.5.1(t) record retention requirements.
Background	<p>S2.12 only states that job records “should” be retained by the owner.</p> <p>Paragraph 1.5.1(t) and Table 1.5.1 requires that all job records that substantiates the description of work on the applicable “R” Form be retained for five years.</p> <p>This revision will clarify record retention requirements in Supplement 2 and bring them to compliance with Part 3, Section 1.</p>

PROPOSED REVISION TO SUPPLEMENT 2, S2.12**S2.12 DOCUMENTATION**

Organizations performing repairs to historic boilers shall document the repair or alteration on Form R-1 or R-2, as applicable. Job records shall be retained in accordance with NBIC Part 3, 1.5.1 t). Additionally, Permanent documentation detailing repairs or alterations ~~should~~shall be retained by the owner in permanent boiler records such as an operator log book.

REFERENCE: Part 3, 1.5.1 t)

t) Records Retention

The quality manual shall describe a system for filing, maintaining, and easily retrieving records supporting or substantiating the administration of the Quality System within the scope of the “R” Certificate of Authorization.

- 1) Records may represent any information used to further substantiate the statements used to describe the scope of work completed to a pressure-retaining item (PRI), and documented on a Form “R” report.
- 2) Records are not limited to those depicting or calculating an acceptable design, material compliance or certifications, NDE-reports, PWHT-charts, a WPS used, a welder, bonder, or cementing technician’s process continuity records, drawings, sketches, or photographs.
- 3) The record retention schedule described in the Quality System Manual is to follow the instructions identified in NBIC Part 3, Table 1.5.1.