

Date Distributed: February 22, 2019



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

# **NATIONAL BOARD SUBGROUP HISTORICAL BOILERS**

## **MINUTES**

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Meeting of January 14<sup>th</sup>, 2019  
Columbus, OH

*These minutes are subject to approval and are for the committee use only.  
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The National Board of Boiler & Pressure Vessel Inspectors  
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Columbus, Ohio 43229-1183  
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## 1. Call to Order

The meeting was called to order at 8:03 a.m. on January 14, 2019 by Chairman, Mr. Tom Dillon.

## 2. Introduction of Members and Visitors

The attendees are identified on the attendance sign in sheet (**Attachment Pages 1-2**). With the attached attendance listing, a quorum was established.

## 3. Announcements

Announcements were made to the subgroup by Vice Chairman, Mr. Jim Getter and Secretary, Ms. Jodi Metzmaier.

After the announcements, Ms. Metzmaier handed out a 5 year Service Award pin to Mr. Mike Wahl.

## 4. Adoption of the Agenda

- Add action item 19-21

The above item was added to the agenda prior to adopting the agenda. A motion was made to adopt the agenda as revised. The motion was unanimously approved.

## 5. Approval of the Minutes of July 16, 2018 Meeting

A motion was made to approve the minutes from the July 2018 SG Historical meeting. The motion was unanimously approved.

## 6. Review of Rosters

### a. Membership Nominations

Mr. Tom Shernisky (Interest Category: Authorized Inspection Agency) is interested in becoming members of SG Historical Boilers (see attachment **pages 3-6**).

Mr. Shernisky addressed the Subgroup as to why he would like to become a member of the SG and how his experience and knowledge would benefit the group. The SG discussed the nominee and a motion was made to recommend the nominees as member of the SG on Inspection. The motion was approved with one disapproval vote.

### b. Membership Reappointments

There were no membership reappointments at this meeting.

### c. Officer Nominations

There were no membership reappointments at this meeting.

## 7. Action Items

<b>Item Number: 18-88</b>	<b>NBIC Location: Part 3, S2.6 a) &amp; S2.9</b>	<b>Attachment Pages 7-8</b>
<b>General Description:</b> Revise NBIC Part 3, paragraphs S2.6(a) and S2.9 to change incorrect reference of “NBIC Part 3, paragraph 1.6” to “NBIC Part 3, paragraph 1.5.”		
<b>Subgroup:</b> SG Historical <b>Task Group:</b> R. Underwood (PM)		
<b>January 2019 Meeting Action:</b> Mr. Underwood had presented and discussed the proposal. He has explained why the change was needed. A motion was made to approve the proposal. The motion was unanimously approved.		
<b>Item Number: 18-89</b>	<b>NBIC Location: Part 2, S2.4</b>	<b>Attachment Pages 9-10</b>
<b>General Description:</b> Revise NBIC Part 2, paragraph S2.4 to change incorrect reference of “NBIC Part 3, Section 3 Corrosion and Failure Mechanisms” to “NBIC Part 2, Section 3, Corrosion and Failure Mechanisms.”		
<b>Subgroup:</b> SG Historical <b>Task Group:</b> R. Underwood (PM)		
<b>January 2019 Meeting Action:</b> Mr. Underwood presented and discussed the proposal. A motion was made to approve the proposal. The motion was unanimously approved.		
<b>Item Number: 18-98</b>	<b>NBIC Location: Part 3, S2.7.2</b>	<b>Attachment Pages 11-12</b>
<b>General Description:</b> Revise S2.7.2 of NBIC Part 3, Supplement 2 to refer to existing replacement part requirements of 3.2.2 of Part 3.		
<b>Subgroup:</b> SG Historical <b>Task Group:</b> None assigned		
<b>January 2019 Meeting Action:</b> Mr. Underwood presented 2 proposal options for change. After discussion, the SG chose one of the options and made revisions to the proposal. A motion was made to approve the revised proposal. The motion was unanimously approved.		
<b>Item Number: 19-21</b>	<b>NBIC Location: Part 3, S2.11</b>	<b>Attachment Page 13</b>
<b>General Description:</b> Changes to Nondestructive Examination and Testing		
<b>Subgroup:</b> SG Historical <b>Task Group:</b> None assigned		
<b>January 2019 Meeting Action:</b> Ms. Metzmaier presented this item to the SG. A motion was made to approve the proposal as presented. The motion was unanimously approved.		

## 8. General Discussion

- Robert Bryce presented a PowerPoint presentation explain a new equation he has come up with for external pressure, and he wanted the groups input on how to move forward. After much discussion the group decided to open an action item and assign a task group.

**The new item number is 19-22**, the Task Group for this item includes Mike Wahl (PM), Joel Amato, Robert Bryce and Dave Rose. No further action was taken on this item. The new item was submitted through the National Board Business Center.

- Robert Bryce presented a PowerPoint presentation reviewing the updates of CSA B51.1. Based off of a “note” that was referenced in the presentation, Mr. Amato has requested to open a new action item to remove the note.

**The new item number is 19-23**. The task group for this item includes Joel Amato (PM), Dave Rose, Tom Shernisky and Dennis Rupert. No further action was taken on this item. This item was submitted through the National Board Business Center.

## 9. Future Meetings

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

- July 15<sup>th</sup>-18<sup>th</sup> – Kansas City, MO
- January 2020 – Location TBD

## 10. Adjournment

A motion was made to adjourn the meeting at 11:46 a.m. The motion was seconded and unanimously approved.

Respectfully submitted,



Jodi Metzmaier  
SG Historical Secretary

1/14/2019

SG Historical Attendance Sheet - ~~7/14/2018~~

Name	Company	Phone Number	Email	Signature
Tom Dillon	Deltak	(763) 425-0733 612-308-9950	tdillon@deltak.com DILLON16HTP@GMAIL	
Jim Getter	Worthington Industries	(614) 840-3087	jim.getter@worthingtonindustries.com	
Jodi Metzmaier	National Board	(614) 888-8320	jmetzmaier@nationalboard.org	
Joel Amato	State of Minnesota	(651) 284-5137	joel.amato@state.mn.us	
Frank Johnson	PBF Energy	(419) 698-6614 419-386-8450	frank.johnson@pbfenergy.com FJKRCK22@AOL.com	
Mark Jordan	State of Kentucky	(502) 573-1708	mark.jordan@ky.gov	
David Rose	T&T Inspections	(780) 217-8175	dr3747@telus.net	
Dennis Rupert	Consultant	(517) 437-4565	rupertcull@comcast.net	DAR
Matthew Sansone	NYS Dept. of Labor Chief Boiler Inspector	(518) 457-2722	Matthew.sansone@labor.ny.gov	
Robby Troutt	State of Texas Chief Boiler Inspector	(512) 638-2727	rob.troutt@tdlr.texas.gov	
Robert Underwood	Hartford Steam Boiler	(618) 593-6231	robert_underwood@hsbct.com	
Mike Wahl	Wisconsin Historical Steam Engine Association	(920) 972-7308	mikew@midstal.com	
Jon Wolf	Zurich	(847) 706-2417	jon.wolf@zurichna.com	
Robert Brye	Heartland Software	780-545 4480	rbrye@heartlandsoftware.ca	
William Hackworth	ARISE	732-221 3461	william.hackworth@ ARISEINC.COM	
Kathy Sanford	State of Texas	832-4553017	Kathy.Sanford@tdlr.texas.gov	
Kathy Moore	Joe Moore Company	919-832 1665	Kathy.moore@joe.moore.company.com	
Michael Quisenberry	ATSM, Inc.	(301) 316 7174	michael@allentri.com	
Ken Watson	ARISE	501- 5410- 16730	Kenneth.WATSON @ARISEINC.	
Kevin Anderson	Anderson Machine	605-281 5663	Kanderson@rvc.net	
Paul Davis	AMEC FWNAC	412 327- 7420	paul.davis@woodpk.com	



**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  
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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 18-88

1/14/19

## Request for NBIC Part 3, Supplement 2 Revision

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

<b>Purpose</b>	To change incorrect references in NBIC Part 3, Supplement 2, paragraphs S2.6 (a) and S2.9.
<b>Scope:</b>	Revise S2.6 (a) and S2.9 to change reference from “NBIC Part 3 paragraph 1.6” to “NBIC Part 3, paragraph 1.5.”
<b>Background</b>	NBIC Part 3, paragraph 1.6 previously addressed requirements of “R” Stamp accreditation. A few editions ago this paragraph was changed to reference “NR” Stamp accreditation requirements. “R” Stamp accreditation requirements were moved to paragraph 1.5.  References to 1.6 were not revised in existing S2.6 (a) and S2.9 when this change was made.
<b>Proposed Revision</b>	See below for proposed revision

### S2.6 ACCREDITATION

a) Organizations performing welded repairs shall be accredited as described in NBIC Part 3, ~~4.61.5~~.

### S2.9 WELDING

Welding shall be performed in accordance with the requirements of the approved construction standard in consultation with the Inspector. A repair organization accredited as described in NBIC Part 3, ~~4.61.5~~ may use the Standard Welding Procedure Specifications shown in 2.3, as applicable. Welders shall be qualified for the welding processes used. Qualification shall be in accordance with the approved construction standard, or ASME Section IX.

**EXISTING S2.6 and S2.9**

**S2.6 ACCREDITATION** Should be 1.5, not 1.6

a) Organizations performing welded repairs shall be accredited as described in **NBIC Part 3, 1.6.**

b) Organizations and/or individuals performing non-welded repairs do not need to have an "R" stamp unless required by the Jurisdiction. However, they must be competent in the type of repair they are performing.

**S2.9 WELDING** Should be 1.5, not 1.6

Welding shall be performed in accordance with the requirements of the approved construction standard in consultation with the Inspector. A repair organization accredited as described in **NBIC Part 3, 1.6** may use the Standard Welding Procedure Specifications shown in 2.3, as applicable. Welders shall be qualified for the welding processes used. Qualification shall be in accordance with the approved construction standard, or ASME Section IX.

# Item 18-89

1/14/19

## Request for NBIC Part 2, Supplement 2 Revision

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

<b>Purpose</b>	To change incorrect reference in NBIC Part 2, Supplement 2, paragraph S2.4.
<b>Scope:</b>	Revise S2.4 to change reference from “NBIC Part 3, Section 3” to “NBIC Part 2, Section 3.”
<b>Background</b>	Part 2, Supplement 2 paragraph S2.4 incorrectly refers to NBIC Part 3, Section 3, however <i>Corrosion and Failure Mechanisms</i> are found in Part 2, Section 3. Part 3 Section 3 refers to <i>Requirements for Repairs and Alterations</i> .
<b>Proposed Revision</b>	See below for proposed revision

### S2.4 GENERAL INSPECTION REQUIREMENTS

The owner or user and Inspector should refer to NBIC Part 2, 1.4 *Personnel Safety*; NBIC Part ~~3~~2, Section 3, *Corrosion and Failure Mechanisms*; and NBIC Part 2, Section 4, *Examinations, Test Methods, and Evaluations*, for additional information when performing inspections.

**EXISTING NBIC Part 2, S2.4 and EXISTING PART 2, SECTION 3**

**S2.4 GENERAL INSPECTION REQUIREMENTS**

Should be NBIC Part 2, not Part 3

The owner or user and Inspector should refer to NBIC Part 2, 1.4 *Personnel Safety*; NBIC Part 3, Section 3, *Corrosion and Failure Mechanisms*; and NBIC Part 2, Section 4, *Examinations, Test Methods, and Evaluations*, for additional information when performing inspections.

**S2.4.1 PRE-INSPECTION REQUIREMENTS**

NB-23 | 2017

**PART 2, SECTION 3  
INSPECTION — CORROSION AND FAILURE MECHANISMS**

**3.1 SCOPE**

(17)

This section describes damage mechanisms applicable to pressure-rated items. Further information

1/14/19

**Request for NBIC Part 3, Supplement 2 Revision**

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

<b>Purpose</b>	Add reference to Replacement Part requirements.
<b>Scope:</b>	Add sentence to S2.7.2 to reference Replacement Parts in 3.2.2.
<b>Background</b>	<p>S2.7.2 addresses replacement parts used for repairs and alterations to historical boilers, however it lacks detail.</p> <p>Detailed requirements on replacement parts are found in 3.2.2 of Part 3. Recommend adding a sentence in S2.7.2 to refer back to 3.2.2 in Part 3.</p>
<b>Proposed Revision</b>	See below

~~Replacement parts formed by casting, forging, or die forming, and on which no welding has been performed shall be supplied as material. Such parts shall be marked with the material identification required by the construction standard used for the repair. Replacement parts fabricated by welding shall be manufactured by an organization certified as required by the construction standard used for the repair. Replacement pressure parts shall be in accordance with Part 3, 3.2.2.~~

### Existing 3.2.2

- c) When ASME Code is the original code of construction, replacement parts subject to internal or external pressure fabricated by welding, which require inspection by an Authorized Inspector shall be fabricated by an organization having an appropriate ASME *Certificate of Authorization*. The item shall be inspected and stamped as required by the applicable section of the ASME Code. A completed ASME *Manufacturer's Partial Data Report* shall be supplied by the manufacturer.
- 1) ASME stamping and completion of an ASME Manufacturer's Partial Data Report is not required for parts fabricated by the "R" Certificate Holder that will be used on pressure retaining items being repaired or altered by the same "R" Certificate Holder. The controls for this activity shall be described in the quality control system.
  - 2) The "R" Certificate Holder, using replacement parts fabricated and certified to an ASME Code edition and addenda different from that used for the original construction, shall consider and seek technical advice, where appropriate, for change or conflicts in design, materials, welding, heat treatment, examinations and tests to ensure a safe repair/alteration is performed. Note that work once classified as a repair could now be considered an alteration.
- d) When the original code of construction is other than ASME Code, replacement parts subject to internal or external pressure, fabricated by welding, shall be manufactured by an organization certified as required by the original code of construction. The item shall be inspected and stamped as required by the original code of construction. Certification to the original code of construction, as required by the original code of construction or equivalent, shall be supplied with the item. When this is not possible or practicable, the organization fabricating the part shall have a National Board "R" *Certificate of Authorization*; replacement parts shall be documented on Form R-3 and the "R" Symbol Stamp applied as described in NBIC Part 3, Section 5.
- e) Replacement parts addressed by 3.2.2 c) or d) above shall receive a pressure test as required by the original code of construction. If replacement parts have not been pressure tested as required by the original code of construction prior to installation they may be installed without performing the original code of construction pressure test provided the owner, the Inspector and, when required, the Jurisdiction accept the use of one or a combination of the examination and test methods shown in Part 3, Section 4, paragraph 4.4.1 (for repairs) or 4.4.2 (for alterations). The R Certificate Holder responsible for completing the R Form shall note in the Remarks section of the R Form the examination(s) and test(s) performed, and the reason the replacement part was not tested in accordance with the original code of construction.



## Part 3, S2.11

### **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](#)).