

Date Distributed: August 3, 2020



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

NATIONAL BOARD SUBGROUP INSPECTION

MINUTES

Meeting of July 14, 2020
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
Columbus, Ohio 43229-1183
Phone: (614)888-8320
FAX: (614)847-1828

1. Call to Order

Chairman, Darrell Graf, called the meeting to order at 8:31 AM.

2. Introduction of Members and Visitors (Attendance – Attachment Page 1)

The members and visitors that were physically present at the meeting went around the room to introduce themselves. Then the members and visitors that were present through WebEx, were called upon one at a time to introduce themselves.

William Hackworth sat in as an alternate for Paul Welch.

3. Check for a Quorum

With the members present both physically and through WebEx, a quorum was established.

4. Awards/Special Recognition

Secretary Jodi Metzmaier presented Darrell Graf with a 5-year pin. This pin was meant to be presented to Mr. Graf in July 2019.

5. Announcements

Secretary, Jodi Metzmaier gave the announcements to the Subgroup (**Attachment page 2**).

It was announced that voice voting was going to be for negatives, abstentions, and not voting only. All other votes would be assumed as approved.

6. Adoption of the Agenda

A motion was made to adopt the agenda. The motion was seconded. A discussion item from Task Group Historical was added to the agenda. The agenda was unanimously adopted as revised.

7. Approval of the Minutes of the January 14th, 2020 Meeting

A motion was made to approve the minutes from the January 14, 2020 Subgroup meeting. The motion was seconded and **unanimously approved**.

8. Review of Rosters

a. Membership Nominations

- Brent Ray Interest Category of User, has attended the last two meetings and is interested in becoming a member of SG Inspection. (**Resume – Attachment Pages 3-5**)

Mr. Ray reviewed his resume with the Subgroup and spoke on why he wanted to become a member and why thinks he would be a good addition to the Subgroup. A motion was made to approve Mr. Ray as a member of the Subgroup Inspection. The motion was seconded and **unanimously approved**.

b. Membership Reappointments

The following Subgroup Inspection memberships are set to expire prior to the January 2021 meeting:

1. Mr. Donnie LeSage
2. Mr. James Roberts
3. Mr. Jason Safarz

All 3 of the above listed Subgroup members stated they would like to continue being a member of Subgroup Inspection. A motion was made to approve all 3 members for reappointment. The motion was seconded and **unanimously approved**.

c. Officer Appointments – No officer appointments

9. Open PRD Items Related to Inspection

- NB14-0602B – Improve index in Part 2 relating to pressure relief devices – D. Marek (PM)
 - Update: Work is still being done for this item.
- NB15-0321 – Review testing requirements for inservice testing of pressure relief devices in Part 2, 2.5.7 a) – A. Renaldo (PM)
 - Update: Proposal was balloted to Main Committee and received a few negative votes. Further work is being done to address those comments.

Chairman, Mr. Graf, reviewed the PRD items with the Subgroup. The group had no conflicts or questions regarding these items.

10. Interpretations - There are no Interpretations for the Subgroup Inspection.

11. Historical Discussion of Item 19-22.

Tom Dillon, Chairman of Task Group historical, presented the proposal, which was unanimously approved in the Task Group Historical meeting on July 13, 2020, to the Subgroup Inspection Committee. Mr. Dillon gave background information to help the Subgroup understand the requested changes. The Subgroup had some questions for Mr. Dillon. There was much discussion to clear up confusion. David Rose, member of both Task Group Historic and Subgroup Inspection, was able to help answer the questions presented by the Subgroup. Mr. Dillon wanted to present this item to the Subgroup so all questions could be address prior to the item reaching the Subcommittee.

12. Action Items

Item Number: 18-43	NBIC Location: Part 2, Section 5	Attachment Pages 6-8
General Description: Permanent nameplate removal from pressure vessel being removed from service		
Subgroup: Inspection		
Task Group: J. Roberts (PM), J. Burgess, J. Calvert, T. Shernisky, J. Clark, M. Sansone		
July 2020 Meeting Action: The group reviewed the Main Committee Letter Ballot Comments from the negative votes. After much discussion the group decided to move the document back through as it was originally submitted to the Main Committee with the hope of a discussion at Main Committee to address the concerns. They were under the impression the negative votes were due to not fully understanding the purpose of the proposal. A motion was made, seconded, and approved with one negative vote.		

Item Number: 18-62	NBIC Location: Part 2	No Attachment
General Description: Remote Inspection of Confined Space Requirements		
Subgroup: Inspection		
Task Group: V. Newton (PM), M. Horbaczewski, B. Wilson, J. Calvert, J. Castle, D. Graf, T. Shernisky		
July 2020 Meeting Action: Mr. Newton address the Subgroup to let them know no action needed to be taken at the Subgroup level for this item because it had passed through subgroup last meeting, and the item was Letter Balloted to the Main Committee. The letter ballot got a few comments which were addressed and the proposal with the changes address the MC comments will now be presented to the Subcommittee Inspection group.		

Item Number: 18-63	NBIC Location: Part 2	No Attachment
<p>General Description: Review inspection requirements for pressure vessels designed for high pressures</p> <p>Subgroup: Inspection</p> <p>Task Group: T. Shernisky (PM), J. Mangas, J. Peterson, V. Scarcella, and J. Castle</p> <p>July 2020 Meeting Action: Progress Report: Tim Bolden shared a PowerPoint with the Subgroup to let the subgroup know where the task group in on this item. Mr. Bolden, and the other Task Group members, asked for some input from the Subgroup. After the presentation the Subgroup had many questions for the Task Group. The task group has a better idea of where to go with this item and they will use the comments from the Subgroup to create their proposal.</p> <p>TASK GROUP CHANGES:</p> <ul style="list-style-type: none"> • Remove T. Shernisky from the task group. • Make V. Scarcella the PM. • Add T. Bolden to the task group. 		

Item Number: 19-6	NBIC Location: Part 2, 2.3.6.8	No Attachment
<p>General Description: PVHO 2.3.6.8 Add other types of PVHO's</p> <p>Subgroup: Inspection</p> <p>Task Group: D. Buechel (PM), R. Smith, S. Reimers, M. Sansone, D. LeSage, R. Reimers</p> <p>July 2020 Meeting Action: Venus Newton presented this item to the Subgroup. He stated there are too many inconsistencies between each type of PVHO's to bring them together. Motion was made to close this item with no action. Motion was seconded and unanimously approved.</p> <p>AFTER MEETING NOTE: During the Subcommittee Inspection meeting it was realized that Mr. Newton had spoke on the wrong item when he made a motion to close this item with no action. This item was readdressed in the Subcommittee Inspection meeting.</p>		

Item Number: 19-7	NBIC Location: Part 2	No Attachment
<p>General Description: Pressure Gage Graduation</p> <p>Subgroup: Inspection</p> <p>Task Group: V. Newton (PM), D. Buechel, D. Rose, D. Graff, & J. Clark</p> <p>July 2020 Meeting Action: The letter ballot for this item closed on July 14, 2020 and passed. There is no action that needed to be take by the Subgroup at this meeting.</p>		

Item Number: 19-46	NBIC Location: Part 2, S5.1	No Attachment
<p>General Description: Revisions to Yankee dryer supplement in Part 2 (Scope)</p> <p>Subgroup: Inspection</p> <p>Task Group: V. Newton (PM), T. Barker, D. Lesage, J. Jessick</p> <p>July 2020 Meeting Action: Progress Report: Mr. Newton stated there has not been much progress on this item yet.</p>		

Item Number: 19-63	NBIC Location: Part 2, S5.2	No Attachment
General Description: Changes to the Yankee Dryer Supplement (ASSESSMENT OF INSTALLATION)		
Subgroup: Inspection		
Task Group: V. Newton (PM), T. Barker, D. Lesage, J. Jessick		
July 2020 Meeting Action: Progress Report: Mr. Newton stated there has not been much progress on this item yet.		

Item Number: 19-64	NBIC Location: Part 2, S5.2.1	No Attachment
General Description: Changes to the Yankee Dryer Supplement (DETERMINATION OF ALLOWABLE OPERATING PARAMETERS)		
Subgroup: Inspection		
Task Group: V. Newton (PM), T. Barker, D. LeSage, J. Jessick		
July 2020 Meeting Action: Progress Report: Mr. Newton stated there has not been much progress on this item yet.		

Item Number: 19-88	NBIC Location: Part 2, 2.2.12.7 c) 2)	No Attachment
General Description: At NBIC Part II propose the following be added to Thermal Fluid Heater		
Subgroup: Inspection		
Task Group: V. Scarcella (PM), M. Sansone, & T. Bolden		
July 2020 Meeting Action: Progress Report: Tom Bolder presented this item to the Subgroup. He shared a document showing the task group work thus far, and asked the Subgroup for comments to help them complete their proposal.		
TASK GROUP UPDATE:		
<ul style="list-style-type: none"> • Add M. Watkinson to the task group 		

New Items:

Item Number: 20-5	NBIC Location: Part 2, 4.1 – 4.4	No Attachment
General Description: Add language in NBIC Pt2/Pt3 to minimize CSEs by allowing remote NDE.		
Subgroup: Inspection		
Task Group: None assigned		
July 2020 Meeting Action: Darrell Graf presented this item to the Subgroup. The group believes it should be covered under the remote visual inspection section which will be in the 2021 edition. After discussion the group assigned a task group, for now, but this may end up becoming an interpretation once the 2021 is printed.		
TASK GROUP ASSIGNED: V. Newton (PM), J. Morgan, M. Horbaczewski, D. Graf, D. LeSage, D. Rose		

General Description: Request for Revision to NBIC Section 9: Glossary of terms to Define “Verify” & “Witnessing”

Subgroup: Inspection

Task Group: None assigned

July 2020 Meeting Action:

The Subgroup has reviewed the proposed wording on the two new definitions being proposed. The group agreed with the wording for the definition of “verify”. The group decided to make some changes to the wording for the definition of “witness”. The wording was given to all 3 other parts for review prior to the Subgroup Inspection voting. After lunch, the Subgroup Inspection learned that the other 3 parts did not like the wording they proposed and they all approved the wording as it was originally presented. The Subgroup Inspection chose to move forward with their revised proposal, to show that they do not agree with how the definition of “witness” is written. They believe the definition needs to reference “remote witnessing, when allowable.” A motion was made to approve the proposal as revised by the Subgroup. The motion was seconded and **unanimously approved**.

General Description: Updates to Forms NB-5, NB-6, & NB-7

Subgroup: Inspection

Task Group: None assigned

July 2020 Meeting Action:

Secretary, Jodi Metzmaier presented this item to the Subgroup based on Gary’s Scribner’s direction. The current forms need updated and reviewed. A task group needs to see how much of the information is being duplicated on data reports and to see how much of the information is needed based on Jurisdictional requirements.

TASK GROUP ASSIGNED: D. Buechel (PM), M. Sansone, V. Scarcella

13. Future Meetings

January 11th – 14th, 2021 – New Orleans, LA

July 12th – 15th, 2021 – Cincinnati, OH

Chairman, Darrell Graf, discussed the future meetings with the Subgroup.

14. Adjournment

A motion was made to adjourn the meeting at 2:07 PM. The motion was seconded and **unanimously approved**.

Respectfully submitted,



Jodi Metzmaier
Subgroup Inspection Secretary

SG Inspection Attendance

MEMBERS:	In Person	WebEx	Not In Attendance
Darrell Graf	X		
Jim Getter	X		
Tim Barker		X	
Ernest Brantley			X
David Buechel	X		
James Calvert		X	
James Clark		X	
Mark Horbaczewski		X	
Donnie LeSage		X	
John Mangas			X
Venus Newton	X		
Jeffrey Petersen			X
James Roberts		X	
David Rose		X	
Jason Safarz		X	
Matt Sansone	X		
Vincent Scarcella		X	
Thomas Vandini	X		
Paul Welch			X
William Hackworth (Alternate for Paul Welch)		X	

VISITORS:	In Person	WebEx
Joe Morgan	X	
Brent Ray		X
Tom Dillon	X	
Robert Bryce		X
Jeffrey Castle		X
Tim bolden		X
Gary Scribner	X	

Announcements

- The National Board will be hosting a reception for all committee members and visitors on Wednesday evening at 5:30pm in the Bluegrass Room
 - Seated dinner
 - Who is coming to the reception?
- Breakfast (7-8 am) and Lunch (11:30 -12:30) will be provided to NBIC Committee members and visitors on Thursday.
- We will take a short break around 9:30-10:00 for task groups to work on items.
- Meetings schedule and meeting rooms layout are on the website under National Board Inspection Code tab → NBIC Committee Information → 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.
- 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*
- **We will do a voice voting for the negatives, not voting, and abstentions only.**
- As a reminder, anyone who would like to become a member of a group or committee, must submit their resume to Jonathan PRIOR TO the meeting.
 - nbicsecretary@nationalboard.org

Brent David Ray

99 Valley Lake Drive, Kenova, WV 25530

Cell Phone: (606) 471-9446

bdray@marathonpetroleum.com

SUMMARY

A dedicated Materials Science Engineer with experience and skills within the petrochemical, refining, and primary metals (carbon-steel, ferrous-alloy and nickel-alloy) industries. A career of varied experience has led to a unique knowledge base and skill set well suited for the petroleum refining industry. A driven individual providing a positive influence to the improvement and advancement of the engineering field.

EXPERIENCE HISTORY

Marathon Petroleum Company

July 2002 to Present

- Corporate Refining Inspection Engineering Specialist (*October 2017 to Present*)
- Corporate Refining Risk-Based Inspection Specialist (*November 2012 – October 2017*)
- Plant Metallurgical/Corrosion/Reliability Engineer, Catlettsburg Refining (*July 2002 – November 2012*)

Special Metals Corporation

(previously INCO Alloys)

November 1996 to July 2002

- Supervising Melting/Casting Engineer for Air Induction Melting & Electro-Slag Remelting Melt Shops
 - *Member Sandia National Labs Liquid Metals Symposium (board member)*
 - *Auditor for the Kentucky Quality Award (1998, 1999, 2000)*
 - *Certified Green Belt 6-Sigma (Engineer & Facilitator)*

Kentucky Electric Steel

October 1991 to November 1996

- Metallurgical Engineer / Statistical Process Control Coordinator / Customer Service Engineer
 - *American Society for Quality – Certified Quality Engineer & Certified Quality Auditor*
 - *Philip Crosby & Associates – Certified Statistical Process Control (Facilitator, Leader, and Trainer)*

College Work Positions

Internships, Student Worker, Technical Aide

- Bechtel, at Ashland Petroleum (Catlettsburg, KY) - Summer 1990 / Winter 1990
- Ashland Petroleum (Catlettsburg, KY) – Summer 1989 / Winter 1989
- South Point Ethanol (South Point, OH) – Summer 1987/Winter 1987/Summer 1988/Winter 1998
- Corps of Engineers (Huntington, WV) – September 1985 to August 1986 / Winter 1986

EDUCATION

BACHELOR OF SCIENCE: Materials Science Engineering (1991)

University of Kentucky (Lexington, KY)

MASTER ASSOCIATE'S CERTIFICATE: Project Management (2007)

The George Washington University (Washington, DC)

Brent David Ray

PROFESSIONAL AFFILIATIONS

- American Petroleum Institute (API)
- American Institute of Steel Technology (AIST)
- National Association of Corrosion Engineers (NACE)
- Society of Manufacturing Reliability Professionals (SMRP)
- American Welding Society (AWS)
- American Society for Materials (ASM)
- Kentucky Society of Professional Engineers (KSPE)
- National Society of Professional Engineers (NSPE)

Specific Memberships and Leadership Roles

- Member API Sub-Committee Inspection & Mechanical Integrity – Chair (2019-present), Vice-Chairman (2016-19)
- Member API RP 581 (Risk-Based Inspection Methodology) – Chairman (2011-2019)
- Member API RP 580 (Elements of Risk-Based Inspection Programs) – Chairman (2019-present)
- Member API Inspection & Mechanical Integrity Summit Planning/Leadership Committee (2014-present)
- Member ASME Post-Construction Code Committees – PCC (Vice-Chair 2020-present), PCC-2, PCC-2 Subgroup on Welded Repairs, PCC-3 (Chair 2019-present)
- Member ASME/API Joint Committee on Fitness-for-Service (API 579-1/ASME FFS-1)

CERTIFICATIONS

- Licensed Professional Engineer – Kentucky (1999 to 2015)
- American Petroleum Institute Certifications
 - 510 (Inspector, Pressure Vessel Code)
 - 570 (Inspector, Piping Code)
 - 653 (Inspector, Above Ground Storage Tanks)
 - 571 (Damage Mechanisms in the Refining Industry)
 - 577 (Welding Metallurgy)
 - 580 (Risk-Based Inspection)
 - 936 (Refractory Inspection)
 - TES (Tank Entry Supervisor)
- National Board (NBIC) – Inspector, Owner-User commission
- Non-Destructive Evaluation Certifications – Level II NDE, RTFI Level 1, Infrared Level 1
- American Welding Society – Certified Welding Engineer
- National Association of Corrosion Engineers – Coating Inspector Program Level 1
- American Society for Quality – Certified Quality Engineer (*expired*) & Certified Quality Auditor (*expired*)

KNOWLEDGE & SKILLS

- Risk-Based Inspection
- Risk-Based Analysis
- Fitness-for-Service
- Reliability Engineering
- Melting/Casting of Nickel-based and Ferrous-based Alloys
- Codes & Standards
- Life-Cycle Studies
- Failure Analysis Review/Application
- Inspection
- Inspection Planning
- Inspection Engineering
- NDE Planning/Execution
- Melting/Casting/Forming of Carbon Steel
- Strong Technical Aptitude
- Strong Writing Skills
- Strong Presentation Skills
- Metallurgical Engineering
- Materials Science Engineering
- Corrosion Engineering
- Damage Mechanisms
- Quality Assurance & Quality Control Engineering
- Project Management
- Leadership
- Computer "savvy"

Brent David Ray

CIVIC INVOLVEMENT

- *Boy Scouts of America*
 - Past, all in TriState Area Council, Huntington, WV (1976 to 2014):
 - Cub Scouts (Cub Scout, Webelos Scout, Assistant Cubmaster & Cubmaster, Pack 605),
 - Boy Scouts (Boy Scout – Life Rank, Assistant Scoutmaster & Scoutmaster Troop 76),
 - District Commissioner, Cardinal District
 - Current, all in Buckeye Council, Charleston, WV (2014 to present):
 - Troop Committee, Assistant Scoutmaster (Buckeye Council, Troop 20, Huntington, WV);
 - Council Merit Badge Counselor (18 various merit badges)
 - Helped counsel at least 10 Eagle Scouts (to date) on their activities and projects
- *26th Street Church of Christ* – assist with church and youth activities as well as mentor college students
- *University of Kentucky, Alumni Band* – participated with since 1991, work with the UK Marching Band and UK Pep Band to provide support for the UK Athletic Bands program including mentoring students, work with the Alumni organization to plan and execute alumni functions and fundraising, served as Vice-President (2012-13), President (2013-14), Board of Directors (2015-present)
- *Various Athletic Organizations* – coached various soccer, basketball, & baseball teams (from 2004 to 2019)
- *Band Booster Organizations* – Spring Valley High School (2013-14), Wayne High School (2014-2019)
- *National Speleological Society* – participate within various groups, including leadership positions, in West Virginia (West Virginia Association of Cave Studies) and Kentucky (ESSO Grotto, CUSS Grotto, James Cavers) from 1993 to present
- *Winter Adventure Weekend (Carter Caves State Resort Park)* – participate in the planning and execution of the yearly event, leading outdoor and caving trips, volunteer position from 1991 to present
- *Kentucky Speleological Survey* – participated in the formation of the group and served as President for several years
- *C-K Alumni Band & Greater Huntington Symphonic Bands* – participate in both groups at various times since 1993, performing at various local concerts and benefits

1.6 CHANGE OF SERVICE

Supplement 9 of this part provides requirements and guidelines to be followed when a change of service or service type is made to a pressure-retaining item.

Whenever there is a change of service, the Jurisdiction where the pressure-retaining item is to be operated, shall be notified for acceptance, when applicable. Any specific jurisdictional requirements shall be met.

1.7 SCRAPPING PRESSURE RETAINING ITEMS

The owner or user shall deface the code nameplate(s) of any pressure retaining item that is scrapped. The removal or defacement of the Code nameplate(s) should be verified by the Inspector, and the National Board form NB-XXX shall be completed and submitted to the National Board and Jurisdiction, if required.

ADD DEFINITION:

SCRAPPED – Permanent removal from service by owner's or user's procedures.

Scrapping of Pressure Retaining Items
In accordance with provisions of the National Board Inspection Code

1.Submitted to:

Name of Jurisdiction

Address

Phone Number

2. Submitted by:

(Name of Owner/User)

Address

Phone Number

3. Manufactured by:
(name and address)

4. Location of Installation:
(address)

5. Manufacturer's Data Report: YES NO

6. Item Registered with National Board: YES NO NB Number: _____

7. Item Identification:

Year Built: _____

Mfr. Serial No.: _____

Type: _____

Jurisdiction no.: _____

Dimensions: _____

MAWP: _____

8. Date of removal or defacement of the Code nameplate(s) _____

9. I certify that to the best of my knowledge and belief the statements in this report are correct, and with provisions of the National Board Inspection Code.

Name of Owner or User: _____

Signature: _____ Date: _____

Instructions for Completing the Form NB-XXX, Scrapping of Pressure Retaining Items Form

Items 1-9 shall be completed by the owner, user, or "R" Stamp Holder making the request.

- 1) The name, address, and phone number of the Jurisdiction, Authorized Inspection Agency (when there is no Jurisdiction) the form is being submitted to for approval.
- 2) Enter the name and address of your company or organization.
- 3) Enter the name and address of the manufacturer shown on the name plate.
- 4) Enter the name and address of the location where the pressure-retaining item is installed. If this is the same as number 2, check the box "same as # 4."
- 5) Manufacturer's Data Report Attached-check the appropriate box.
- 6) Is the pressure-retaining item registered with the National Board? Check the appropriate box. If yes, provide the National Board Registration Number.
- 7) Provide as much information as known to help identify the pressure-retaining item.
- 8) Enter date the removal or defacement of the Code nameplate.
- 9) Enter the name and signature of the owner, user, or "R" Stamp Holder (and "R" Stamp number if applicable).

Note: Once completed the requester shall file a copy with the Jurisdiction where the pressure retaining item is installed, the National Board (if registered with the National Board), and the owner or user of the vessel if the request was made by an "R" Stamp Holder, and upon request to the Authorized Inspection Agency who witnessed the removal or defacement of the nameplate.

Item 20-9: Request for Revision to NBIC Section 9: Glossary of terms
Parts 1, 2, 3 and 4 9.1

Purpose	Define "Verify" and "Witness" in the NBIC Part 1, 2, 3, and 4 to align with the definition in NB-263, RCI-1, Rules for Commissioned Inspectors
Scope	Add "Verify" and "Witness" to the terms defined in Section 9 of Parts 1, 2, 3 and 4
Background	The need for the definition of "verify" and "witness" was initiated from Interpretation Item 18-03, which addresses which Inspector (i.e. "IS" Commissioned or "R" Endorsement) signs the FFSA Form NB-403 when an "R" Certificate Holder is involved with a repair in that region as well as determine what level of review of the Fitness-for-Service the Inspector is expected to complete.
Proposed Revision	<p>Verify – To determine that a particular action has been performed in accordance with the requirements either by witnessing the action or reviewing records.</p> <p>Witness – To be present at an event and have first-hand knowledge of the action and be able to attest that it occurred.</p>

Submitted by: Terry Hellman

SG INSPECTION APPROVED THE BELOW:

Proposed Change:

9.1 DEFINITIONS

Verify – To determine that a particular action has been performed in accordance with the requirements either by witnessing the action or reviewing records.

Witness – To be physically present, or remotely present as allowed, to confirm an event or condition is true and accurate.