Date Distributed: July 28, 2017



THE NATIONAL BOARD

OF BOILER AND Pressure Vessel

INSPECTORS

NATIONAL BOARD SUBCOMMITTEE INSPECTION

MINUTES

Meeting of July 19th, 2017 Columbus, Ohio

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 8:01 a.m. on July 19, 2017 by Mr. Mark Mooney.

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. Mr. Wielgoszinski attended the meeting as an alternate for D. Buechel.

3. Announcements

- The National Board invites all committee members and visitors to a reception at the Pavilion on Wednesday evening.
- Lunch will be provided Tuesday through Thursday, breakfast will be provided on Thursday before the Main Committee Meeting.
- Mr. Mooney addressed the SC regarding assigning a new Chair at the next meeting.
- Additional announcements were made by the Secretary, Jodi Metzmaier

4. Adoption of the Agenda

- It was noted that item NB14-0802 should be on the SG Locomotive Agenda, and it does not need to be discuss at SG Inspection.
- Action Items NB17-0603 (SG Historical) & 17-153 (SG Inspection) were added to the agenda.
- Mr. J. Roberts & J. Safarz were added as Membership Nominees to both SG & SC Inspection.

A motion was made to adopt the revised agenda, the motion was unanimously approved.

5. Approval of the Minutes of January 11th, 2017 Meeting

The minutes from the January 2017 meeting were approved unanimously.

6. Review of Rosters

a. Membership Nominations

Donnie LeSage (Jurisdiction), James Roberts (Manufacturer) and Jason Safarz (General Interest), were all membership nominees for the SG and SC on Inspection. Each nominee addressed the SC stating who they were, what their interest group was and how they would benefit the SG & SC. A motion was made to approve all 3 nominees for membership to both SG & SC Inspection. **The motion was unanimously approved.**

b. Membership Reappointments

David Ford & Greg McRae were both up for membership reappointment for the SG & SC on Inspection. Mr. G. McRae has retired and will not be reappointed. Mr. D. Ford was not present at the meeting; however, he did express his interest to remain a member of the SG & SC on Inspection. A motion was made to reappoint Mr. D. Ford, **the motion was unanimously approved**.

7. NBIC Business

a. Interpretations

Item Number: IN16-0501	NBIC Location: Part 2	Attachment Pages 3				
General Description: Change of service from Ammonia to LP gas						
Subgroup: Inspection Task Group: None assigned.						
July 2017 Meeting Action:						
Mr. M. Mooney presented the respon	se created in SG Inspection based on the let	tter ballot disapproval				
comments from MC. The response w	as based on the 2017 edition of the NBIC a	and unanimously approved in				
SG. Mr. Wielgoszinski has recomme	ended the response be sent to the inquirer to	see if the response based on				
the 2017 NBIC resolves his issues, an	nd to see if he wants to retract his inquiry.	_				

b. Action Items – Old Business

Item Number: NB13-0903	NBIC Location: Part 2, S2.14	Attachment Page 4
General Description: Add safety	requirements for use of liquid or gaseous fuels t	o fire a historical boiler
Subgroup: Historical		
Task Group: D. Rupert (PM), T. I	Dillon, J. Larson, R. Bryce	
- 1		
July 2017 Meeting Action:		
Mr. M. Mooney has reviewed the r	new wording, which was unanimously approved	l in SG Historical, with the
SC Inspection. The SC has made a	a few changes to the wording and reviewed these	e changes with the SG
	agreed with the changes made by the SC Inspec d in SC. The motion was unanimously appro	

Item Number: NB13-1406 NBIC Location: Part 2, S1

General Description: Add requirements for inspection of superheater units

Subgroup: Locomotive Task Group: P. Welch (PM), R. Stone

July 2017 Meeting Action:

Mr. P. Welch has noted that this item should be moved to Part 3, R&A. This item is more for repairing than inspection of superheaters. He has also recommended changing the word "Inspection" in the General Description to "Repairs". A motion was made to move this item to Part 3 and revise the General Description. **The motion was unanimously approved.**

No Attachment

Item Number: NB13-1409

NBIC Location: Part 2, S1

No Attachment

General Description: Address method for analyzing bulges created by overheating in stayed boiler surfaces

Subgroup: Locomotive Task Group: P. Welch (PM), M. Mooney, R. Stone

July 2017 Meeting Action:

Mr. P. Welch has given a progress report stating the task group is still working on this item.

Item Number: NB14-0901	NBIC Location: Part 2	No Attachment
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General Description: Review inspection requirements for pressure vessels designed for high pressures

Subgroup: Inspection

Task Group: M. Horbaczewski (PM), M. Schwartzwalder, D. Graf, G. Scribner, B. Wilson

July 2017 Meeting Action:

Mr. M. Horbaczewski gave a progress report stating this item is being letter balloted to SG Inspection for comment.

Item Number: NB14-1101

NBIC Location: Part 2

No Attachment

General Description: Diaphragm weld inspection.

Subgroup: Locomotive Task Group: P. Welch (PM), D. Graf, R. Stone

July 2017 Meeting Action:

Mr. P. Welch gave a progress report stating the task group is still working to bring inspection requirements up to and equal to FRA requirements. This will be a new supplement in Part 2.

Item Number: NB14-1801	
Conoral Description: Formul	١.

NBIC Location: Part 2

No Attachment

General Description: Ferrules

Subgroup: Locomotive **Task Group:** P. Welch (PM), R. Stone

July 2017 Meeting Action:

Mr. P. Welch has recommended moving this item to Part 3, R&A, as this item is meant to update wording in Part 3. A motion was made to move this item to Part 3. **The motion was unanimously approved.**

Item Number: NB14-1802

NBIC Location: Part 2

No Attachment

General Description: Riveted staybolt head dimensions and Figure S1.2.2-c

Subgroup: Inspection Task Group: P. Welch (PM), R. Stone

July 2017 Meeting Action:

Mr. P. Welch has recommended moving this item to Part 3, R&A. This item involves Figure S1.2.2-b and new wording that are in part 3. A motion was made to move this item to Part 3. The motion was unanimously approved.

Item Number: NB16-0502

NBIC Location: Part 2

No Attachment

General Description: Gage glass and water level over historical boiler crown sheets

Subgroup: Historical Task Group: None Assigned.

July 2017 Meeting Action:

A progress Report was given stating a task group was assigned at the SG Historical meeting.

Task Group Assigned: D. Rupert (PM), T. Dillon, R. Underwood & R. Troutt

Item	Numbe	er: NB1	6-1001]	NBIC	Loca	tion: Pa	rt 2, CC	02 Supj	op. No Attachment
0		• .•		1	. 1	1		1	• •	

General Description: Edit CO2 supplement based on AIA proposed revision

Subgroup: Inspection **Task Group:** None assigned.

July 2017 Meeting Action:

Mr. V. Newton gave a progress report stating there are comments that still need to be reviewed by the task group. A task group was assigned in January 2017.

Item Number: NB16-1401

NBIC Location: Part 2, S10

No Attachment

General Description: Revise and update Supplement 10 on Inspection of CRPVs

Subgroup: FRP Task Group: N. Newhouse (PM)

July 2017 Meeting Action:

No one from FRP was present to report.

Item Number: NB17-0202

NBIC Location: Part 2, 2.3.6

Attachment Pages 5-7

General Description: Result of public review comments submitted after deadline, review use of mandatory code language in S12

Subgroup: Inspection Task Group: M. Mooney (PM), D. Buechel, D. Graf

July 2017 Meeting Action:

Mr. M. Mooney reviewed the changes made based on MC letter ballot comments. Additional changes were made and a motion was made to approve the document as revised. **The motion was unanimously approved.**

Item Number: NB17-0203	NBIC Location: Part 2, S12.5	No Attachment
General Description: Clarification	n on calibration of gas detectors	
Subgroup: Inspection Task Group: D. Buechel (PM), D.	Graf, B. Hart	
July 2017 Meeting Action: Mr. M. Mooney gave a progress rep	port of no progress.	

c. Action Items – New Business

Item Number: 17-136	NBIC Location: Part 2, S2	No Attachment
General Description: Update t	ables in Part 2. S2 with correct values	

Subgroup: Historical Task Group: Joel Amato

July 2017 Meeting Action:

Mr. M. Mooney has reviewed the changes to the table in Part 2, S2, which were unanimously approved at SG Historical, with the SC Inspection. There is reference to a word document which the SC was unable to locate. The item will go back to the SG Historical so they can submit the complete attachment to the SC Inspection for review.

Item Number: 17-140

NBIC Location: Part 2, 5.2.2

Attachment Pages 8-9

General Description: Updates to Part 2, 5.2.2 and NB-136 Form

Subgroup: Inspection Task Group: None Assigned.

July 2017 Meeting Action:

The SC reviewed the wording changes to Part 2, 5.2.2 and the changes to NB-136, which were unanimously approved at SG Inspection. The SC has made a few revisions to the presented document. A motion was made to approve the document as revised at SC. **The motion was unanimously approved**. No task group was assigned, as this item was approved to be presented to MC.

Based on discussion of this item, Action Item 17-162 was opened to create a guide for completing NB-136.

Item Number: 17-144 **NBIC Location: Part 2**

General Description: Reference EPRI publication on use of fracture mechanics in FFS assessments

Subgroup: Inspection Task Group: George Galanes

July 2017 Meeting Action:

Mr. M. Mooney reviewed the document, which was unanimously passed at SG Inspection, to add a reference for EPRI publication to Part 2, 1.3. A motion was made to add this reference. The motion was unanimously approved.

Item Number: 17-148 NBIC Location: Part 2, 1.7 General Description: Vessel initial and installation inspections

Subgroup: Inspection Task Group: None Assigned.

July 2017 Meeting Action:

The SG Inspection has unanimously decided to move this item to Part 1 with suggested wording. The SC has reviewed this proposal and a motion was made to move this item to Part 1. The motion was unanimously approved.

Item Number: NB17-0603	NBIC Location: Part 2, S2.10.2.1	No Attachment						
General Description: Revises wording adding "Common."								

Subgroup: Historical Task Group: D. Rose (PM), M. Wahl

July 2017 Meeting Action:

The document showing the wording change to Part 2, S2.10.2.1 was reviewed by the SC. A motion was mode to accept this wording. The motion was unanimously approved.

Item Number: 17-153

NBIC Location: Part 2

No Attachment

General Description: Clarify what are acceptable conditions for UT thickness readings on air tanks.

Subgroup: Inspection Task Group: None Assigned.

July 2017 Meeting Action:

A task group was assigned at the SG Inspection meeting. No further action has been taken.

Task Group Assigned: T. Barker (PM), J. Roberts, J. Burgess, T. Shernisky, J. Mangus

Attachment Page 10

Attachment Page 11

8. Future Meetings

- January 8th-11th, 2018 New Orleans, Louisiana
- July 16th-19th, 2018 Columbus, Ohio

9. Adjournment

A motion was made and unanimously approved to adjourn the meeting at 10:43 a.m.

Respectfully submitted,

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Jodi Metzmaier SC Inspection Secretary

Name	Company	Phone Number	Email	Signature	Attend Rec.?	Bringin Guest
Mark Mooney	Liberty Mutual	(781) 891-8900	mark.mooney@libertymutual.com	Mand Moan.	X	
Stanley Staniszewski	U.S. DOT	(202) 366-4545	<u>stanley.staniszewski@dot.gov</u>	0		
Jodi Metzmaier	National Board	(614) 888-8320	jmetzmaier@nationalboard.org	Jod Metym	X	
Timothy Barker	Factory Mutual	360 BU) (78 1)255-4784 3790	 timothy.barker@fmglobal.com	T.B.L	R	
Ernest Brantley	XL Insurance	(337) 842-7044	BPC LLG GA. Co ernest.brantley@rpcllcga.com		8	>
David Buechel	Hartford Steam Boiler	(412) 310-7740	david buechel@hsb.com			
David Ford	U.S. DOT	(202) 366-4545	<u>david.ford@dot.gov</u>	1		
Jim Getter	Worthington Industries	(614) 840-3087	jim.getter@worthingtonindustries.com	Josn, h. Gette	X	
Darrel Graf	Air Products and Chemicals Inc.	601-799-2883	grafdr@airproducts.com	000	X	
Mark Horbaczewski	Diamond Technical Services	(630) 799-8162	mhorbaczewski@diamondtechnicalservices.co <u>m</u>	mount	Z	
Greg McRae	Trinity Industries	(214) 589-8559	greg.mcrae@trin.net	(Retired)		
Venus Newton	Boiler & Property Insurance	(770) 614-3111	venus.newton@boilerproperty.com	V	\times	
Jim Riley	Phillips 66	(510) 245-5895	jim.riley@p66.com	Jun Reley	\times	
Mike Schwartzwalder	AEP	(614) 581-6456	mschwartzwalder@aep.com	n. i. huh	\times	
Thomas Vandini	Quality Steel Corporation	(419) 334-2664	tvandini@propanetank.com	Per J. Meternaier, T. Vandir Was in attendance.	Ň	
Paul Welch	Arise	(678) 446-5290	paul.welch@ariseinc.com	Faul Welch	×	
JASON SAFARZ	HIMA AMORICAS	281.520.874	7 JSAFARZOHIMA-AMERICAS.COM	Iton frances		
Donnie	State of Louisiana	225 268-5549	Donnie. LeSoge@ LA. Gov	Donnie Selseze	X	
LAMES ROBERTS	TRINITY INDUSTRIES	214-589- 8344	JAMES, ROBERTS @ TRINING		\times	X
ROBERT ELGOSZINSK		860 722 5064		PM Sielaringhi	V	
JAMES LUCAS CALVERT	ELI LILLY	317 - 760 5585	; lcalvert@lilly.com	1 due no		

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		SCI	nspec	tion	Attachment Page	e 2 of 11	Ιà
	Name	Company	Phone Number	Email	Signature	Attend Rec.?	Bringing Guest?
-	JEFF Castle	ZURICH	716-753- 0928	jeffrey.castle@ zurichna,com	Allast		
	JON WOLF	ZURICH	920-253 8781	jon.wolf@zuricuwa 1 com	hudy		
	Tom SHERNISK	ONECIS/ BV	304-374- 5165	Chomas. Shernisky@ Enecis. Com	Harma Mari		
	Mathew	State of	685-303	Mathen - Schnsone a)	Mon I plein	$\beta >$	
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	mangas		5633	airproducts. Conn	askel Manane	b	
,	TOEY Burgess	Liberty Mutual		Joey, burgess@libertym	ful com Cour Birles		r
	JoeFrey	Stressering Engineering Services	713 201 7861	Joey.burgess@libertym. joe.frey@stress.com	Portrey 00	V	
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(

IN16-0501

Response to Interpretation: No, Refer to 2017 NBIC Part 2, S7.8.6

S7.8.6 ANHYDROUS AMMONIA SERVICE

Pressure vessels of 3000 gal. (11.4 m₃) water capacity or less used to store anhydrous ammonia, except for pressure vessels used in cargo tank vehicle service, shall not be converted to LPG service.

Cargo tank pressure vessels less than 3000 gal. (11.4 m₃) water capacity to be converted from ammonia to LPG service shall be wet-fluorescent magnetic particle tested (WFMT) on all internal surfaces (see NBIC Part 2, 2.3.6.4).

Blue coloring of the brass valves is one indication that the pressure vessel has been in anhydrous ammonia service.

Action Item Request

Code Revision or Addition: NB13-0903 to Part 2, S2.14

The requestor, Mr Don Cook, Chief Inspector, State of California has been seeing occasions in his state where historical boilers are being fired with liquid or gaseous fuels and is asking the Committee to provide some cautionary guidance in NBIC to address these important safety issues related to that activity.

PROPOSE:

New paragraph, Part 2, Supplement S2.14.16:

FIRING OF HISTORICAL BOILERS WITH LIQUID OR GASEOUS FUELS.

Hand firing of historical boilers with liquid or gaseous fuels poses significant additional safety concerns beyond those encountered when firing with solid fuels for which these boilers were originally designed, such as coal, straw or wood. The cautionary notes listed below are provided as examples to remind the owner or user that additional safety concerns do exist when firing historical boilers with these alternate fuels. These notes are not meant to be all-inclusive so each boilers fuel system should be designed appropriately.

- a) JURISDICTIONAL ACCEPTANCE: The owner or user should shall check with the Jurisdiction as applicable to determine if this alternative firing method is allowed.
- b) OWNER OR USER KNOWLEDGE: The owner or user shall have an extensive knowledge of the fuel used, fuel transfer system, on board fuel storage, burner, firing controls, emergency shut off devices and procedures.
- c) PURGING: To prevent a firebox explosion, it is essential to ensure that the furnace is purged of combustible gasses prior to applying the fuel ignition source to prevent flame-outs.
- d) FLAME IMPINGEMENT: Direct flame impingement of the metal surfaces within the furnace can damage the boiler. Installation of refractory or fire brick in the firebox is a common practice to prevent this potential damage.
- e) LOW WATER: The owner or user <u>must-shall</u> have a plan and method to immediately shut off the fuel supply to the burner when a boiler low water condition occurs.
- f) FUEL CONTAINMENT: The fuel storage system must shall be suitably designed with the appropriate shut off devices for the specific fuel product. The mounting method and proximity of the fuel storage container to the furnace must shall be considered to prevent the fuel from accidental ignition.
- g) FUEL SYSTEM: The fuel delivery system from fuel source to the burner shall be suitably designed for the specific fuel product including appropriate emergency shut off devices. The routing of the fuel delivery system should be a consideration as well.
- h) FUEL AIR MIXTURE: The burner utilized shall be designed to operate within the confines of the boiler furnace and provide the proper fuel/air mixture.
- i) SAFETY VALVE: The boilers minimum relieving capacity shall be computed for the type of fuel used.
- j) COMPRESSED NATURAL GAS (CNG) vs LIQUID PETROLEUM GAS (LPG): CNG is lighter than air and LPG is heavier than air. The owner or user should understand the properties of the fuels to ensure the gas will not accumulate in the boiler (see Purging above).

Part 2 Section 2.3.6.6-10 d

d) Any damage to the cylinder or closures can lead to premature failure. Frequent visual inspection should be made of internal and external surfaces of the cylinder, frame and closures. A thorough examination should be completed if any visually apparent damage is identified or if any excursion beyond design temperature or pressure occurs.

In addition, surfaces of the cylinder and closures should be examined by dye penetrant or magnetic particle method at intervals based on vessel remaining life. Closures may require ultrasonic examination of passageways.

As part of this inspection guideline for wire wound pressure vessels._periodic _ <u>inspection_of</u> the following items should include <u>be reviewed</u>:

- Verify no change in the process, such as the Changes of the processing fluid, that might may adversely impact vessel integrity.
- Review the vessel manufacturer<u></u>'sManufacturer's inspection recommendations for vessel, closures and frame. If manufacturer's recommendations are not available, <u>the owner should</u> obtain recommendations from a recognized wire wound vessel service provider.
- Verify any repairRepairs to pressure retaining items has been should be _ completed by a_National Board authorized service provider having wire wound vessel expertise.
- 4) Verify overpressure<u>Overpressure_protection with appropriate set pressure and capacity is should be provided protection as described in the original code of construction with the appropriate set pressure and capacity is to be in place with no observable compromise to the intended service.</u> Rupture discs are commonly used for pressures exceeding 14,500 psi (100 MPa) to avoid valve seat leakage. Overpressure protection devices are frequently replaced to avoid premature operation.
- 5) If there are no manufacturer's recommendations available for the vessel, the following are additional recommended inspections that should be conducted to ensure vessel integrity and safety.
 - a. Conduct annualAnnual_visual and dimensional vessel inspections with should be conducted using_liquid penetrant examination of maximum stressed areas to ensure that the surfaces are free of defects. Conduct ultrasonic Ultrasonic examination of the vessel should be conducted after every 25% of the design cycle life or every five years, whichever comes first, to detect subsurface cracks. Special attention should be given to the roots of threads and closures using threaded head retention construction. Other geometric discontinuities that are inherent in the design or irregularities resulting from localized corrosion, erosion, or mechanical damage should be carefully examined. This is particularly important for units of monoblock construction.

- b. The closure mechanism of the vessel end-closure is-may be opened and closed frequently during operation. It should be, therefore, the closure mechanism should be closely inspected for freedom of movement and proper contact with its locking elements. Wire wound vessels must have The presence of yoke-type closures should be verified and so the yoke frame will need to be closely inspected on a regular basis.
- 6) Gages, Safety Devices, and Controls
 - a. Verify that the <u>The</u> vessel is <u>should be</u> provided with control and monitoring of pressure, temperature, the electrical system, fluid flow, liquid levels, and all variables that are essential for the safe operation of the system. If the vessel is automatically controlled, manual override should be available. Also, safety interlocks should be provided on the vessel closure to prevent vessel pressurization if the vessel closure is not complete and locked.
 - b. Verify that allAll_safety device isolation valves are should be locked open if used.as allowed by the code of construction, e.g. ASME Section VIII-Div-<u>1, UG-135.</u>
 - c. Verify appropriate <u>Appropriate</u> pressure relief device<u>s is should be</u> installed with the setpoint at the lowest pressure possible, consistent with the <u>normal</u> operating pressure, but in no case higher than the <u>maximum allowable</u> <u>working pressure</u> design operating pressure _____ of the vessel. Rupture discs are <u>normally</u>-considered more suitable for these types of applications, since pressure relief devices operating at pressures above 14,500 psi may tend to leak by their seat.
 - d. Verify that pressure Pressure and temperature of the vessel coolant and vessel wall is should be controlled and monitored. Interlock devices should be installed that will de-energize or depressurize the vessel at established setpoints.
 - e. <u>Verify audible</u>Audible and visual alarms are <u>should be</u> installed to indicate unsafe conditions.

[Type text]

Attachment Page 7

NB17-0202 Withdrawn LB Comments 6-27-17

	Archived Comments for Ballot: NB17-0202-MC					
Edwards,Paul 4/13/2017 12:22:49 PM	Approved, with the understanding that these materials will be included under a new Part 2-2.3.6.10 (as corrections to the paragraph numbering in Item 13-1701), and not as a replacement of the current text in Part 2-2.3.6.6.					
Simmons,Kevin 4/7/2017 2:57:54 PM	I agree with Mr. Webb's comments and await a response before my final vote. In addition, both paragraphs d.4 and d.6.c both contain language regarding the use of rupture discs. The language is different in the two paragraphs. I also question if the language is necessary,particularly the use of the word "normally" in d.6.c					
Webb,Michael 3/31/2017 4:20:47 PM	At this time I will "abstain" only to ask the following 3-questions: 1) third paragraph of the introduction to d) indicating periodic inspection "should", states clearly (in my opinion) that the sub-paragraphs d-1 through d, 6-e) are all within the non-mandated, "should"-venue. Moreover, is paragraph d-4 Overpressure protection now "overstated" as, should be provided? Could the d-4 paragraph be revised to read: "Overpressure protection as described in the original code of construction with the appropriate set pressure and capacity is to be in place with no observable compromise to the intended service? 2) Paragraph d, 6-b) Could the line be revised to read: All safety device isolation valves should be locked open as allowed by the construction code; e.g. ASME Section VIII, D-I, UG-135. 3) Lastly, d 6-c) Is there specific reason why, "in no case higher than the design operating pressure of the vessel" was used in lieu of the more traditional reference to, "in no case higher than maximum allowable working pressure of the vessel" M.Webb, 3-31-17					

17-140 Metzmaier 170719

5.2.2 Replacement of Nameplate or Stamped Data

- a) The re-stamping or replacement of data shall be witnessed by a National Board Commissioned Inspector.
- b) When the standard governing the original construction is the ASME Code or ASME RTP -1, Tthe re-stamping or replacement of a code <u>Code symbol Symbol stamp Stamp or Certification Mark</u> shall be performed only as permitted by the governing code of construction <u>ASME CAP-21</u> (<u>Criteria for Reapplication of An ASME Certification Mark</u>).
- b)c) When the standard governing the original construction is not the ASME Code or ASME RTP-1, the re-stamping or replacement of a code symbol stamp shall be performed only as permitted by the original code of construction.

c)d) Replacement nameplates or stamped data shall be clearly marked "Replacement"

Revisions to NB-136:

- 1. Change " 'R' Certificate Holder's Name" to " 'R' Certificate Holder's Name & Number/Owner or User's Name".
- 2. Remove "Number"
- 3. Add "(Authorized Representative)" under the Signature line in box 11.
- 4. Change "Name of Inspector" to "Signature of Inspector"

NB-136 Form Page 1

10. If nameplate is lost or illegible, traceability documentation, verified by the Inspector shall be attached to this report.

11. I request authorization to replace the stamped data a "R" Certificate Holder's Name & Number/Owner or User's	
"R" Certificate Holder's Name:	Number
Signature	Date
Verificati (authorized representative) (Name of inspector)	NB Commission
12. Authorization is granted to described pressure-retaining item.	or to replace the nameplate of the above
Signature	Date
Jurisdiction (if available) or NB Commission no.	

This form may be obtained from The National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Ave., Columbus, OH 43229

NB-136 Rev.7

Replace "R Certificate Holder's Name" line with "Owner or User"

Delete "Number" line

Add "Employer" line

Change "NB Commission" line to "NB Commission No."

NB-136 Form Page 2

This form may be obtained from The National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Ave., Columbus, OH 43229

NB-136 Rev.7(Back)

Replace "R Certificate Holder's Name" line with "Owner or User"

Delete "Number" line

Change "NB Commission" line to "NB Commission No."

NBIC Subcommittee R&A Action Block

SubjectRevision to 2015 Edition, NBIC Part 2, 1.3Item17-144Prop. on Pg.ProposedRevisionStatement ofNeedSee below

Project Manager Galanes

SubGroup0SG Meeting DateNegatives

Need; Update reference documents in Part 2 of the NBIC to include a new, EPRI free publication on "Applications of Fracture Mechanics Methods to Fossil-Fueled Boiler Components", 3002008607. Having this reference will enable Users or repair organization to utilize tools for evaluation of defects in pressure retaining items.

See below for proposed revision in Part 2 of the NBIC, page 2;

1.3 add new (v) below

(v). Electric Power Research Institute (EPRI) publication 3002008607 (Applications of Fracture Mechanics Methods to Fossil-Fueled Boiler Components)

NB17-0603

Part 2, S2.10.2.1 RIVET HEAD TYPES

Common Ffinished rivet heads are shown in NBIC Part 3, Figure S2.13.13.4. Note that a riveted seam may have more than one type of rivet to, for example, provide necessary clearance during operation, or for provision for equipment assembly and maintenance.