THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS

Date Distributed: July 26, 2024

NATIONAL BOARD INSPECTION CODE SUBCOMMITTEE INSPECTION

MINUTES

Meeting of July 17, 2024
Louisville, KY

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The National Board of Boiler & Pressure Vessel Inspectors
1055 Crupper Avenue
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1. **Call to Order**
   Mr. Jim Getter, Subcommittee Inspection (SC) Chair, called the SC Inspection meeting to order at 8:11 am EST.

2. **Introduction of Members and Visitors**
   Secretary, Ms. Jodi Metzmaier did a roll call of all SC members in person and online was done by. All visitors in person and online stated their name and their company. All members and visitors are noted on the attendance sheets. (**Attachment Pages 1-2**)

3. **Check for a Quorum (51% - 22 Members, need at least 12 for Quorum)**
   With 19 of 23 members in attendance, both in person and online, a quorum was established.

4. **Awards/Special Recognition - None**

5. **Announcements**
   Ms. Metzmaier gave announcements to the SC. (**Attachment Page 3**)

6. **Adoption of the Agenda**
   - Add officer nominees for SG Inspection Chair (James Roberts) & Vice Chair (Jim Clark)
   - Add Joseph Beareureguard as a nominee to the SC
   - Add Change of Employment nomination for Chuck Becker.
   - Add Item 24-69: *CO2 is heavier than air; Part 2, S12.4 c) should say "above" not "below"*
   - Add Item 24-71: Changes to NB-136 Instructions
   - Add Item 24-74: Change “would be necessary” to “shall”

   A motion was made to adopt the agenda with the above items added. The motion was seconded and **unanimously approved**.

7. **Approval of the Minutes of the January 10, 2024, Meeting**
   A motion was made to approve the minutes from the SC Inspection meeting on January 10, 2023. The motion was seconded and **unanimously approved**.

8. **Review of Rosters**
   a. **Membership Nominations**
      Mr. Chuck Becker, SG & SC Inspection member, has had a change of employment. Due to this change of employment his interest category will be changing from Manufacturers to Authorized Inspection Agencies.

      Mr. Getter spoke on the interest category balance to make sure they were still within their balance for SC Interest Categories. The group had a lot of discussion regarding interest categories and members who will be retiring, and who will be taking their place. By the end of the conversation, it was noted that with Mr. Becker’s change of interest category from Manufacturer to Authorized Inspection Agencies, the SC was still in balance.

      A motion was made to accept Mr. Becker’s nomination due to change of employment to both SG & SC Inspection. The motion was seconded and **unanimously approved**.

      Mr. Joseph Beaureguard has expressed his interest in becoming a member of the SC. After a short discussion, a motion was made to accept Mr. Beauregard’s nomination to the SC. The motion was seconded and **unanimously approved**.

b. Membership Reappointments

- The following **Subgroup** members are up for reappointment: Mr. Darrell Graf, Mr. James Clark, Mr. James Calvert, Mr. William Hackworth, Mr. Mark Horbaczewski, Mr. Jerry Jessick, and Mr. John Mangas.

  A motion was made to reappoint Mr. Graf, Mr. Hackworth, Mr. Horbaczewski, Mr. Jessick, and Mr. Mangas to the Inspection SG. The motion was seconded and **unanimously approved**.

  Mr. Calvert and Mr. Jessick were not present during the Inspection SG meeting. NBIC Secretary will send out a LB for James Calvert's and Jerry Jessick's reappointment once they have confirmed they would like to be reappointed to the Inspection SG.

- The following **Subcommittee** members are up for reappointment: Mr. Mark Horbaczewski, Mr. James Calvert, Mr. William Hackworth, Mr. Jerry Jessick, and Mr. John Mangas.

  Mr. Horbaczewski, Mr. Hackworth, Mr. Jerry Jessick, & Mr. Mangus have all expressed they would like to be reappointed to the Inspection SC. A motion was made to reappoint these members. The motion was seconded and **unanimously approved**.

  NBIC Secretary will send out a LB for James Calvert's reappointment once he has confirmed he would like to be reappointed.

c. Officer Appointments

- **SUBGROUP** - Mr. Graf's and Mr. Clark's terms as Chair and Vice Chair of the **Inspection SG** are set to expire on August 31, 2024.

  The SG has unanimously nominated Mr. James Roberts for the position of SG Inspection Chair.
  The SG has unanimously nominated Mr. James Clark for reappointment for the position of SG Inspection Vice Chair.
  A motion was made to accept the appointment of both Mr. Roberts' and Mr. Clark's officer positions. The motion was seconded and **unanimously approved**.

- **SUBCOMMITTEE** - Mr. Getter is retiring from the NBIC committees after this meeting, and Mr. Horbaczewski's term as **SC Inspection** Vice Chair is set to end on August 31, 2024. The Subcommittee will need to nominate a Chair and Vice Chair for Main Committee consideration.

  Mr. Darrell Graf has volunteered for the position of Vice Chair of the SC. A motion was made to accept Mr. Graf's officer appointment. The motion as seconded and **unanimously approved**.

  Mr. Horbaczewski & Mr. Scarcella were both nominated for the SC Chair position. Both nominees spoke on their experience and involvement with the committee. Both nominees left the room while the SC and guests discussed the two nominees. After a secret ballot by the SC, Mr. Horbaczewski was nominated by a majority vote for the position of SC Inspection Chair.

9. Open Items Related to Inspection

a. PRD

i. **Item 24-63 – Change to note on tables regarding replacement of T&P valves (new item)**
It was noted that the item that passed through the SG PRD meeting was also accepted by the SG Inspection.

b. R&A

i. **Item 21-53** – Post repair inspection of weld repairs to CSEF steels. (P. Gilston as PM)
It was noted to the SC that this item will be an item that is added to the Part 2/3 TG.

10. Interpretations.

Item Number: 23-70	NBIC Location: Part 2, 2.3.6.11	Attachment Page 4
General Description: Inspection of vessels at and above 10,000 PSI (c) & (d) "requalification" **Subgroup:** Inspection **Task Group:** None assigned. **Submitted by:** C. Bierl **Explanation of Need:** Isostatic Pressure Vessel manufacturers are currently "requalifying" pressure vessels through an engineering evaluation without the involvement of the NB Alteration process and therefore an Inspector. This leaves control of this process of a code vessel in the hands of the manufacturer and impairs the code integrity of the vessel.		
July 2024 Meeting Action: The proposal that was unanimously approved through the SG was presented to the SC. There was little discussion, and a motion was made to accept the proposal as presented. The motion was seconded and **unanimously approved**.		

Item Number: 24-04	NBIC Location: Part 2, 4.4.7. h) and i)	Attachment Page 5
General Description: Thickness for determining corrosion rates for circumferential stress **Subgroup:** Inspection **Task Group:** None assigned. **Submitted by:** L. Ponce **Explanation of Need:** It is unclear if the statement made in the NBIC Part 2, 4.4.7.2 i) also applies to 4.4.7.2 h). The statement reads, "The thicknesses used for determining corrosion rates at the respective locations shall be the most critical value of average thickness." Mr. Dominguez believes the statement applies to both paragraphs.		
July 2024 Meeting Action: The proposal that was unanimously approved through the SG was presented to the SC. A motion was made to accept the proposal as presented. The motion was seconded and **unanimously approved**.		

Item Number: 24-27	NBIC Location: Part 2, 5.2.1	No Attachment
General Description: Replacement of Repair Nameplate **Subgroup:** Inspection **Task Group:** None assigned. **Submitted by:** T. Hellman **Explanation of Need:** There is a lack of clarity for replacing a Repair Nameplate that has become lost, illegible, or detached, and the stamping/markings required.		
July 2024 Meeting Action: The SG reviewed this Interpretation, and after a lot of discussion they believe this interpretation should be moved to be a SG Repairs & Alteration item. The information being questioned is not addressed in Part 2. After discussion, the SC agreed with the SG's decision to move this item to SG R&A.		

11. Action Items

a. TG FRP Items

Item Number: NB16-1402	NBIC Location: Part 2, New Supplement	No Attachment
General Description: Life extension for high pressure FRP vessels above 20 years **Subgroup:** FRP **Task Group:** M. Gorman (PM)		
January 2024 Meeting Action: There were no updates on this item. **Update from the April 2024 TG FRP Meeting:** The task group is finalizing the proposal for this item and should have something ready to present at the January 2025 meeting.		
July 2024 Meeting Action: Progress Report.		

b. TG Historical Items

Item Number: 23-74	NBIC Location: Part 2, S2	No Attachment
General Description: Certificate of compliance for new fusible plugs **Subgroup:** SG Historical **Task Group:** None assigned. **Explanation of Need:** To discuss the possibility of requiring a certificate of compliance on all new fusible plugs on historical boilers.		
July 2024 Action: Progress report: This item was closed with no action at the January 2024 meeting. During the Main Committee (MC) meeting it was decided to put this item on hold until the BOT reviews the subject to see if the committee should address this further. Per Mr. Scribner, this issue was not discussed during the BOT meeting in May 2024. Mr. Seime stated this item was in fact not discussed during the BOT meeting; however, it was brought up in discussion with some of the members after the meeting. During this discussion, they all agreed to the reasoning behind closing the item with no action. Mr. Seime will present this item during the MC meeting to explain to them why the item was closed with no action. No action was taken by the SC.		

Item Number: 23-85	NBIC Location: Part 2, S2.14.7	No Attachment
General Description: Review paragraphs to replace with proper verbiage **Subgroup:** SG Historical **Task Group:** None assigned. **Explanation of Need:** There is some slang and second person (POV) verbiage throughout these paragraphs. Recommend rewording with proper terminology (such that it could be understood internationally) and changing point of view (e.g., changing "you're pulling water" to "water is being pulled"). Since I don't have the technical knowledge to know what is slang and what isn't, what I have proposed will still need to be reworded.		
January 2024 Action: Progress Report: a task group was created during the Historical TG meeting.		
July 2024 Meeting Action: Progress Report		

Item Number: 24-23	NBIC Location: Part 2, S2.10.4.2	Attachment Page 6

General Description: Review Verbiage in Part 2, S2.10.4.2

Subgroup: SG Historical
Task Group: None assigned.
Submitted by: Michelle Vance

Explanation of Need: What is the meaning of "pillow/mattress-effects"? Is there a better way to describe this? Is this phrase normally understood outside of the US/by someone who may not speak English?

July 2024 Meeting Action:
Mr. Metzmaier presented the proposal that unanimously passed through the Historical TG. A motion was made to accept the proposal as presented. The motion was seconded and **unanimously approved**.

Item Number: 24-47	NBIC Location: Part 2, S2.6.1 a)	No Attachment

General Description: Interpretation 23-05 inverted verbiage

Subgroup: SG Historical
Task Group: None assigned.

Explanation of Need: The current published interpretation includes a term heritage boiler that is not present in the NBIC, further the interpretation says it is permissible to add pressure to a hydro test. whilst recognizing this is not an unusual or abhorrent process there are no words supporting adding pressure. changing the wording to is it prohibited (which it is not) and reversing the answer allows this to happen without a potential rule by interpretation conflict.

July 2024 Meeting Action:
The Historical TG decided this Interpretation does not need to be revised, and they unanimously closed this item with no action. After review of the item by the SC, a motion was made to **close this item with no action**. The motion was seconded and **unanimously approved**.

c. TG Locomotive Items

There are currently no Locomotive items open for Part 2.

d. SG Inspection Items

Item Number: 21-47	NBIC Location: Part 2, 2.2.4 & 2.2.5	No Attachment

General Description: To provide better guidance as it relates to carbon monoxide

Subgroup: Inspection
Task Group: W. Hackworth (PM), V. Scarcella, D. Buechel, T. Barker, T. Bolden, M. Sansone, H. Henry, J. Castle, J. Morgan, & J. Clark

Explanation of Need: Need to provide more comprehensive items to be reviewed to guide the inspector on carbon monoxide and combustion air.

July 2024 Meeting Action:
Ms. Metzmaier gave an update on this item stating, per Mr. Ellis, this item went out to MC letter ballot (LB) for vote, and Mr. Galanes pulled it back because he wanted to discuss the comments from the previous ballot in person to make sure everyone's comments were addressed before voting. He also noted he has some minor editorial suggestions he will bring up during the MC meeting. He plans to do a voice vote during the MC meeting. No action was taken by the SC.

Item Number: 22-06	NBIC Location: Part 2, 3.4.9 e)	No Attachment
General Description: Part 2 task group to review Part 3 Item 21-53 **Subgroup:** Inspection **Task Group:** M. Horbaczewski (PM), J. Clark, B. Wilson, J. Mangas, P. Polick **Submitted by:** D. Graf **Explanation of Need:** Part 2 task group to investigate further changes to Part 2/Part 3 that could be needed because of action item 21-53.		
January 2024 Meeting Action: Progress Report: Mr. Horbaczewski gave a progress report on this item.		
July 2024 Meeting Action: Progress Report: Mr. Horbaczewski stated this item will become part of the new for Part 2/3 standing task group and will be removed from the SG agenda.		

Item Number: 22-26	NBIC Location: Part 2, 2.3.6.8	No Attachment
General Description: Addition of cast acrylic as a pressure vessel material **Subgroup:** Inspection **Task Group:** J. Calvert (PM), V. Newton, D. Buechel, D. Rose **Submitted by:** J. Calvert **Explanation of Need:** Provide inspectors with the criteria necessary to competently inspect vessels like acrylic chromatography columns.		
July 2024 Meeting Action: PM was not present, no report given.		

Item Number: 22-39	NBIC Location: Part 2, 4.4.8.7 g)	Attachment Page 7
General Description: Recommended clarification of requirements for Evaluating Local Thin Areas **Subgroup:** Inspection **Task Group:** V. Newton (PM), T. Barker, J. Morgan, B. Wilson **Submitted by:** L. Ponce **Explanation of Need:** The existing text may lead to confusion due to a misplaced comma after 'specified' in the first sentence and no reference to what is being specified in the paragraph. The proposed text is a way to tie in the specified requirement in paragraph (f).		
July 2024 Meeting Action: The proposal that passed unanimously through SG was presented to the SC. A motion was made to accept the proposal as presented. The motion as seconded and **unanimously approved**.		

Item Number: 23-08	NBIC Location: Part 2	No Attachment

General Description: Part 2 task group to review Part 3 Item 21-67

Subgroup: Inspection
Task Group: M. Horbaczewski (PM), J. Clark, B. Wilson, J. Mangas, P. Polick, H. Henry, P. Gilston, B. Ray, T. Bolden, T. Lebeau, & A. Triplett
Submitted by: D. Graf

Explanation of Need: Part 2 task group to investigate further changes to Part 2/Part 3 that could be needed because of action item 21-67.

July 2024 Meeting Action:
Progress Report: Mr. Horbaczewski stated this item will become part of the new for Part 2/3 standing task group and will be removed from the SG agenda.

Item Number: 23-17	NBIC Location: Part 2, 2.3.6.4 and 4.4.8.7	Attachment Page 8

General Description: Steel-loss acceptance criteria for pressure-retaining items

Subgroup: Inspection
Task Group: D. Graf (PM), B. Ray, J. Roberts, T. Vandini, C. Becker, J. Sowinski, & J. Hadley
Submitted by: J. Hadley

Explanation of Need: (1) Resolve inconsistencies between the 2021 NBIC's air, ammonia, LPG, and general acceptance criteria.

(2) Provide screening criteria that, if met, would ensure that a pressure-retaining item also meets the conservative criteria in API 579-1/ASME FFS-1, Fitness-For-Service, 2021 edition, "ASME FFS-1", Part 3 Level 1 (brittle fracture) and either Part 4 Level 2 or Part 5 Level 1 (wall thinning). If not met, an owner/user could fall back on more complex, less conservative, ASME FFS-1 assessments.

(3) Describe steel-loss screening criteria in one location within NBIC, and reference this location when needed, to facilitate future revisions.

(4) Coordinate NBIC with ASME FFS-1. They have been referencing each other for some years, so coordinating them seems worthwhile.

July 2024 Meeting Action:
Progress Report was given in the SG meeting. Mr. Graf discussed this item with the SC to let them know where they plan to go with this item. The original proposal was presented for review, and the SC revised the proposal to be simplified to the editorial corrections. The remaining issues listed in this item, will be addressed in new action items. A motion was made to accept the revised proposal. The motion was seconded and **unanimously approved**.

Item Number: 23-27	NBIC Location: Part 2, 1.5.1	No Attachment

General Description: Addition of requirement for Inspector to be present for inspections.

Subgroup: Inspection
Task Group: V. Newton (PM), V. Scarcella, T. Bolden, J. Morgan, J. Smith, T. Barker, C. Becker, C. Hartford
Submitted by: D. Kinney

Explanation of Need: While it has always been standard industry practice for inspections to be performed in-person, and there are requirements for remote inspection, currently there is no language in Part 2 or RCI-1 requiring the Inspector to be present at the location of installation while performing an inspection. This requirement is implied, but not stated.

July 2024 Meeting Action:
Progress Report was given at the SG meeting.

Item Number: 23-81	NBIC Location: Part 2, 4.4.3 b)	No Attachment

General Description: Evaluate Inspector responsibilities relating to 4.4.3 FFS

Subgroup: Inspection
Task Group: V. Scarcella (PM), M. Horbaczewski, J. Clark, B. Ray, J. Ferreira, J. Sowinski
Submitted by: R. Underwood

Explanation of Need: Currently, 4.4.3-b states the Inspector shall review the condition assessment methodology and ensure the inspection data and documentation are in accordance with Section 4. This proposal would redefine the role and responsibility of the Inspector.

July 2024 Meeting Action:
Progress Report was given at the SG meeting. Mr. Horbaczewski discussed this item with the SC. The original proposal was reviewed and after a lot of discussion and revisions to the proposal, the SC decided this proposal needed to go back to the TG for further work.

Item Number: 24-03	NBIC Location: Part 2, Supplement 6	No Attachment

General Description: Revise "Inspector" terminology and requirements in Supplement 6

Subgroup: Inspection
Task Group: B. Wilson (PM), R. Kennedy, and J. Smith
Submitted by: L. Ponce

Explanation of Need: Currently, 4.4.3-b states the Inspector shall review the condition assessment methodology and ensure the inspection data and documentation are in accordance with Section 4. This proposal would redefine the role and responsibility of the Inspector.

July 2024 Meeting Action:
Progress Report was given in the SG meeting.

12. New Items

Item Number: 24-28	NBIC Location: Part 2, S9.9 b) 4)	No Attachment

General Description: Applying PWHT to previously "as welded" item

Subgroup: Inspection
Task Group: None assigned.
Submitted by: J. Swezy

Explanation of Need: The NBIC clearly lists the application of PWHT to a PRI that was not previously PWHT by the original Manufacturer as an example of an alteration. I agree with that statement and believe it is appropriate to consider this to be an alteration. I do not under why the NBIC considers this as an acceptable alteration but does not provide its users with any guidance as to how they should address its implementation. It seems very clear to me that applying PWHT to such welds is rarely detrimental when properly applied and should not reduce their strength or toughness. If anything it should prove helpful rather than harmful under properly considered application. Good engineering practice mandates that a carbon steel vessel undergoing a change to wet H2S service should receive PWHT to provide an improved resistance to hydrogen cracking corrosion. Failing to do so would be irresponsible. The NBIC rules for a change of service even mention this as a factor to consider in Part 2, Table S-9.4.

July 2024 Meeting Action:
Progress Report: Mr. Horbaczewski stated this item will become part of the new for Part 2/3 standing task group.

Task Group: Add Rich Wallace to the TG that will be created in the part 2/3 TG.

Item Number: 24-37	NBIC Location: Part 2, 2.2.10	No Attachment

General Description: Add language in the event boiler can't be secured at the time of inspection

Subgroup: Inspection
Task Group: None assigned.
Submitted by: V. Scarcella

Explanation of Need: In some circumstances boilers cannot be shut down and a dead man switch is not allowed.

July 2024 Meeting Action:
A TG was created during SG meeting.

Item Number: 24-42	NBIC Location: Part 2, 2.4.1 and 2.4.4	No Attachment

General Description: Add language to NBIC Part 2 in regards to piping inspections

Subgroup: Inspection
Task Group: None assigned.
Submitted by: V. Scarcella

Explanation of Need: Two fatal incidents resultant from radiator failure prompted an ask for these changes.

July 2024 Meeting Action:
A TG was created during SG meeting.

Item Number: 24-48	NBIC Location: Part 2, Table S9.4	Attachment Page 9

General Description: Part 2, Table S9.4 - clarify service condition changes

Subgroup: Inspection
Task Group: None assigned.
Submitted by: M. Vance

Explanation of Need: For Column 1, Row 7, please explain what gas services are being described. For Column 1, Row 10, please spell out what ICC is because the acronym is unclear (is this the manufacturer ICC or something else?)

July 2024 Meeting Action:
The proposal that unanimously passed through SG was presented to the SC. A motion was made to accept the proposal as presented. The motion was seconded and **unanimously approved**.

Item Number: 24-55	NBIC Location: Part 2, S9.3 a) and c)	Attachment Page 10

General Description: Overpressure protection considerations for a change in service.

Subgroup: Inspection
Task Group: None assigned.
Submitted by: L. Ponce

Explanation of Need: Overpressure protection can apply to both S9.3 a) Design Considerations and S9.3 c) Environmental. A change in design due to a change in service with regard to overpressure protection may be possible. In addition, S9.3 c) 2) could be explained in more detail to add considerations for a 'safe point of discharge' and 'environmental regulation compliance' if the change in service includes substances and applications that will be harmful to the environment.

July 2024 Meeting Action:
The proposal that passed unanimously through the SG was presented to the SC. A motion was made to accept the proposal as presented. The motion was seconded and **unanimously approved**.

Item Number: 24-58	NBIC Location: Part 2, 4.4.3 b)	Attachment Page 11

General Description: Add requirements for the drain valve to be locked/tagged open.

Subgroup: Inspection
Task Group: None assigned.
Submitted by: L. Ponce

Explanation of Need: Currently, there is no requirement for the drain valve or cock to be locked/tagged in the open position when between the stop valves in a required double block and bleed configuration. This item is created for the committee to consider adding this requirement for safety purposes.

July 2024 Meeting Action:
The proposal that passed unanimously through the SG was presented to the SC. A motion was made to accept the proposal as presented. The motion was seconded and **unanimously approved**.

Item Number: 24-59	NBIC Location: Part 2, 5.3.2	No Attachment

General Description: NB-6 and NB-7 forms

Subgroup: Inspection
Task Group: None assigned.
Submitted by: D. Buechel

Explanation of Need: Align fields with how data is entered in JRS.

July 2024 Meeting Action:
The SG closed this item with no action as this was deemed editorial since there were no words being changed. A motion was made to **close this item with no action**. The motion was seconded and **unanimously approved**.

Item Number: 24-62	NBIC Location: Part 2, Section 2	No Attachment

General Description: Temporary Boiler Inspection

Subgroup: Inspection
Task Group: None assigned.
Submitted by: V. Scarcella

Explanation of Need: No guidance for inspectors for temporary boiler inspections.

July 2024 Meeting Action:
A TG was created during the SG meeting. The SC asked the TG to make sure they involve Part 1 with this item.

Task Group: Add Stan Konopacki

Item Number: 24-69	NBIC Location: Part 2, S12.4 c)	Attachment Page 12

General Description: CO2 is heavier than air; Part 2, S12.4 c) should say "above" not "below"

Subgroup: Inspection
Task Group: None assigned.
Submitted by: G. Scribner

Explanation of Need: CO2 is like the foam on a beer mug flowing over, it is heavier than air. being below and an air intake it goes down so should not be an issue, if it is above an air intake it will be dropping down and go into the air intake.

July 2024 Meeting Action:
The proposal that unanimously passed through the SG was presented to the SC. A motion was made to accept the proposal as presented. The motion was seconded and **unanimously approved**.

Item Number: 24-71	NBIC Location: Part 2, 5.3.3	Attachment Page 13
General Description: Changes to NB-136 **Subgroup:** Inspection **Task Group:** None assigned. **Submitted by:** G. Scribner, M. Vance, J. Metzmaier **Explanation of Need:** Clarification		
July 2024 Meeting Action: The proposal that unanimously passed through the SG was presented to the SC. During review there were a few minor changes to the proposal. They group also discussed a concern for where "the requester" is supposed to obtain the nameplates, and after discussion, the SC decided they will open a new item to address this in the instructions of the NB-136. A motion was made to accept the proposal as revised. The motion was seconded and **unanimously approved**.		

Item Number: 24-74	NBIC Location: Part 2, 2.3.6.5b)2)b.	Attachment Page 14
General Description: Revisions to item 21-25 **Subgroup:** Inspection **Task Group:** None assigned. **Submitted by:** J. Metzmaier **Explanation of Need:** Clarification		
July 2024 Meeting Action: The proposal that was unanimously approved through SG was presented to the SC. A motion was made to accept the proposal as presented. The motion was seconded and **unanimously approved**.		

13. Future Meetings

- January 13-16, 2025 – Charleston, SC
- July 2025 – TBD

Mr. Getter discussed the future meetings with the SC.

14. Adjournment

A motion was made to adjourn the meeting at 11:06 am EST. The motion was seconded and **unanimously approved**.

Respectfully submitted,

Jodi Metzmaier
Subcommittee Inspection Secretary

Subcommittee Inspection Member Attendees - July 2024

MEMBERS:	Interest Category	Email	Registered	In Person Attendance	Remote Attendance	Not In Attendance
Jim Getter Chair	Manufacturers	jim.getter@worthingtonindustries.com	In-Person	x		
Mark Horbaczewski Vice Chair	Users	mhorbaczewski@diamondtechnicalservices.com	In-Person	x		
Jodi Metzmaier Secretary	NBBI	jmetzmaier@nbbi.org	In-Person	x		
Tim Barker	Authorized Inspection Agencies	timothy.barker@fmglobal.com	In-Person	x		
Chuck Becker	Authorized Inspection Agencies	hggbecker@yahoo.com	In-Person	x		
David Buechel	Authorized Inspection Agencies	davidbuechel55@gmail.com	Remote		x	
Lee (Damon) Burton	National Board Certificate Holders	burtondl@airproducts.com	In-Person	x		
James Calvert	National Board Certificate Holders	jlcalvert@lilly.com	In-Person			x
James Clark	Manufacturers	james.clark@worthingtonindustries.com	Remote		x	
David Dexter	Users	dexterde@dow.com	Remote		x	
Darrell Graf	National Board Certificate Holders	grafdr@airproducts.com	In-Person	x		
William Hackworth	Authorized Inspection Agencies	william.hackworth@tuvsud.com			x	
Jerry Jessick	Users	jjessick@fusion-etc.com				x
John Mangas	General Interest	jcmangas@gmail.com				x
Venus Newton	Authorized Inspection Agencies	venus_newton@yahoo.com		x		
Jeffrey Petersen	Users	jeffrey.petersen@inl.gov	In-Person	x		
Pat Polick	Jurisdictional Authorities	patrick.polick@illinois.gov	In-Person	x		
Brent Ray	Users	bdray@marathonpetroleum.com	In-Person	x		
James Roberts	Manufacturers	james.roberts@triarccorp.com	In-Person	x		
David Rose	Users	dr3747@telus.net				x
Jason Safarz	General Interest	jsafarz@karldungsusa.com	In-Person	x		
Vincent Scarcella	Authorized Inspection Agencies	vincent.scarcella@cna.com	In-Person	x		
Thomas Vandini	National Board Certificate Holders	tvandini@propanetank.com	In-Person		x	
Clay Moultie	Alternate for Tom Vandini beginning at 9:00 AM	cmoultrie@propanetank.com			x	
Mike (Gerald) Whitlock	Authorized Inspection Agencies	gerald_whitlock@hsb.com	In-Person	x		

Subcommittee Inspection Visitor Attendees - July 2024

VISITORS:	Company/Title/Interest	Email	Registered	In Person Attendance	Remote Attendance
Wil Griffith	Zurich	william.griffith@zurichna.com	In-Person	x	
James Bell	Fink Engineering	jim@finkusa.com	In-Person	x	
Ken Barkdoll	Arise	ken.barkdoll@tuvsud.com			x
Tim Bolden	CNA	timothy.bolden@cna.com	In-Person	x	
Joseph Beauregard	Maintenance Manager/Los Alamos National Laboratory	joeducati@hotmail.com	In-Person	x	
Randy Kennedy	Babcock & Wilcox	crkennedy@babcock.com	In-Person	x	
William Ross	Commonwealth of PA	wross@pa.gov	In-Person	x	
Andrew Triplett	UT-Battelle, LLC	triplettal@ornl.gov	In-Person		x
Karl Eder	LRQA	karl.eder@lrqa.com	Remote		x
Brandon Wilson	Liquid Metal Coating & Solutions	bwilson@lmce.solutions	In-Person	x	
Clay Moultrie	Quality Director/Quality Steel Corporation	cmoultrie@propanetank.com			x
Gavin Kopp	Arizona Boiler Inspectors	Gavin@stateboilerinspectors.com			x
Brandon Steinhart	FM Global	brandon.steinhart@fmglobal.com		x	
Chris Selinger					x
Thomas Maher	City of Chicago - Chief Boiler Inspector	Thomas.Maher@cityofchicago.org			x
James Hadley	Fact Fancy, LLC	james.hadley@factplusfancy.com			x
Christa Rogers	NBBI	crogers@nbbi.org	In-Person	x	
Mark Mooney	NBBI	mmooney@nbbi.org	In-Person	x	
Luis Ponce	NBBI	lponce@nbbi.org	In-Person	x	

Announcements

- MS Teams Notes:
  - Please stay muted during the meeting. If you would like to speak, please use the "raise hand" feature, and then you can unmute as you are called on. Teams will note the order in which your hands were raised, and we will call on you in that order.
  - Any messages sent through chat **will be displayed for anyone in the meeting to see**. If you need to send me a private message, please send it to me directly and not through the meeting chat.

- This meeting marks the end of Cycle D for the 2025 NBIC edition. This meeting marks the end of the 2025 NBIC development cycle and is the last opportunity for code revisions to be approved for the 2025 NBIC. **Anything that is being sent to letter ballot will NOT be included in the 2025 edition.**

- The National Board will be hosting a reception on Wednesday evening from 5:30 p.m. to 7:30 p.m. at the Rooftop Garden on the 16th floor of the hotel.

- The National Board will be hosting breakfast and lunch on Thursday on the 1st floor in Citation A/B for those attending the Main Committee meeting. Breakfast will be served from 7:00 a.m. to 8:00 a.m. and lunch will be served from 11:30 a.m. to 12:30 p.m.

- There is a tutorial for submitting NBIC requests on the NBIC tab of the Business Center. The link is under the NBIC Requests section. If there are any other tutorials you think would be helpful, please let us know and we can do our best to add more.

- Meeting schedules, meeting room layouts, and other helpful information can be found on the National Board website under the **NBIC** tab → NBIC Meeting Information.

- Remember to add any attachments that you'd like to show during the meeting (proposals, reference documents, power points, etc.) to the NBIC file share site (nbfileshare.org) **prior to the meeting**.
  - Note that access to the NBIC file share site is limited to committee members only.
  - ALL power point attachments/presentations must be sent to the NBIC Secretary prior to the meeting for approval.
  - Contact Jonathan Ellis (*nbicsecretary@nbbi.org*) for any questions regarding NBIC file share access.

- All proposals should be submitted in word with "strike through/underline" tracking.
  - Please contact me (jmetzmaier@nbbi.org) if you need any help with this.
  - Project Managers: please ensure any proposals containing text from the 2021 NBIC are updated to contain text from the 2023 NBIC.

- If you'd like to open a new Interpretation or Action Item, this should be done through the National Board Business Center.
  - Anyone, member or not, can open a new item.

- As a reminder, anyone who would like to become a member of a group or committee:
  - Should attend at least 2 meetings prior to being put on the agenda for membership consideration. The nominee will be on the agenda for vote during their 3rd meeting, and they would become a voting member during their 4th meeting.
  - The nominee must submit the formal request along with their resume to the NBIC Secretary, Jonathan Ellis, **PRIOR TO** the meeting. *nbicsecretary@nbbi.org*
  - If needed, we can also create a ballot for voting of a new member between meetings.

- We have been told by the hotel that if you plan to go eat at the restaurants at the hotel for dinner, you should make a reservation through the open table app. They told us that the restaurant fills up quickly, and it's best to make a reservation to ensure you can get in. They also mentioned that it's best to make reservations for restaurants outside of the hotel.

- Thank you to everyone who registered online for this meeting. The online registration is very helpful for planning our reception, meals, the room set up, etc. Please continue to use the online registration for each meeting, whether you are attending in person or remote. It also is a good way to make sure we have the most up-to-date contact information. **If you did not register, please do this now so we have an accurate count for the reception on Wednesday and breakfast and lunch on Thursday.**

Interpretation Item 23-70
Submitted by Craig Bierl (craig.bierl@chubb.com)
12-2-23
Page **1** of **1**

Subject: Inspection of vessels at and above 10,000 PSI (c) & (d) "requalification"

Statement of Need: Isostatic Pressure Vessel manufacturers are currently "requalifying" pressure vessels through an engineering evaluation without the involvement of the NB Alteration process and therefore an Inspector. This leaves control of this process of a code vessel in the hands of the manufacturer and impairs the code integrity of the vessel.

Background:

2.3.6.11 INSPECTION OF VESSELS FOR PRESSURES AT AND ABOVE 10,000 PSI

c) Vessels constructed for a set number of cycles, as defined by the code of construction, which have reached the end of those cycles, must be removed from service or requalified for continued use. Any requalification for continued service must be completed in accordance with the requirements of the jurisdiction where applicable. The Inspector shall verify that documentation of any requalification is retained.

d) Requalification of any vessel shall either be completed by the original manufacturer or a manufacturer familiar with the construction of pressure vessels at and above 10,000 PSI (68.95 MPa). Guidance for completing requalification can be found in ASME PCC-3, Inspection Planning and Using Risk-Based Methods.

It is not clear in the new Part 2 guidance, and I have already had a manufacturer question this. I would like this interpretation to also consider the prior interpretation:

19-15 INTERPRETATION
Subject: PV Cycles of operations change as an alteration (Part 3, 3.4.4). Edition: 2019
Question: When the design of a pressure retaining item (PRI) includes cyclic loading data, should an adjustment, modification or change in analysis of the original design data be considered an alteration?
Reply: Yes.

Proposed Question: Is the “requalification for continued service” of a vessel constructed for a set number of cycles, as defined by the code of construction, which has reached the end of those cycles, required to be completed as an alteration?

Proposed Reply: Yes, requalification of a pressure vessel requires an alteration.

Committee’s Question: Is the “requalification for continued service” of a vessel constructed for a set number of cycles, as defined by the code of construction, which has reached the end of those cycles, required to be completed as an alteration?

Committee’s Reply: Yes.

Rationale: As per the original interpretation 19-15.

Interpretation Item 24-04
Submitted by L. Ponce (lponce@nbbi.org)
01-04-2024

Subject: Thickness for determining corrosion rates for circumferential stress

Location: Part 2; Section: 4; Paragraph: 4.4.7.2 h) & 4.4.7.2 i)

Statement of Need: It is unclear if the statement made in the NBIC Part 2, 4.4.7.2 i) also applies to 4.4.7.2 h). The statement reads, "The thicknesses used for determining corrosion rates at the respective locations shall be the most critical value of average thickness." Mr. Dominguez believes the statement applies to both paragraphs.

Background:
This inquiry was received from Mr. Alejandro Domingues, Eng. National Institute of Industrial Technology (INTI), Argentina. Mr. Domingues has led the effort for the adoption of the NBIC Parts 1 and 2 in several provinces in Argentina and Uruguay.

S7.8.5 CORROSION
c) General Corrosion
For a corroded area of considerable size, the thickness along the most damaged area may be averaged over a length not exceeding 10 in. (250 mm). The thickness at the thinnest point shall not be less than 75% of the required wall thickness, and the average shall not be less than 90% of the required wall thickness.

So, the intent could be
1- limit the average thickness (as in SUPPLEMENT 7)
2- The thicknesses used for determining corrosion rates at the respective locations shall be the most critical value of average thickness (as in 4.4.7.2 i))

Proposed Question: For the purposes of determining PRI corrosion rates when circumferential stresses govern, it is the intent of the NBIC that the statement in 4.4.7.2 i), "The thicknesses used for determining corrosion rates at the respective locations shall be the most critical value of average thickness" also applies to 4.4.7.2 h)?

Proposed Reply: Yes

Committee's Question: For the purposes of determining PRI corrosion rates when circumferential stresses govern, it is the intent of the NBIC that the statement in 4.4.7.2 i), "The thicknesses used for determining corrosion rates at the respective locations shall be the most critical value of average thickness" also applies to 4.4.7.2 h)?

Committee's Reply: No.

Rationale: 4.4.7.2 h) and 4.4.7.2 i) are stand-alone paragraphs.

Item 24-23
M. Vance
2/20/2024
Page **1** of **1**

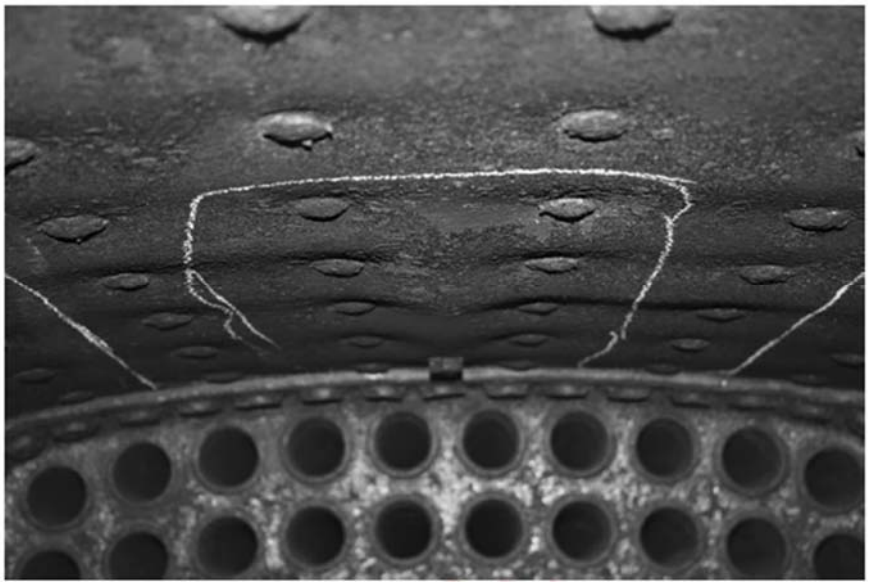
Subject: Review Verbiage in Part 2, S2.10.4.2

Statement of Need
What is the meaning of "pillow/mattress-effects"? Is there a better way to describe this? Is this phrase normally understood outside of the US/by someone who may not speak English?

S2.10.4.2 BULGING
Stayed surfaces shall be examined and any deformations shall be measured and recorded. Deformations may be caused from freezing, localized overheating, broken staybolts, or extended use (cyclic activity). Deformations may by described as bulging, bagging, or continuous bulging (pillow/mattress-effects) see Figure S2.10.4.2-b. The bulged section depth is defined as the protrusion of the sheet beyond its original position.

e) The following guidelines apply where repair is required.
1) Plate may only be repaired using a flush patch, in accordance with NBIC Part 3, Supplement 2.
2) Where a deformation is to be repaired, all portions of the deformity shall be repaired. For example, for ~~contiguous~~ continuous bulging where only some bulges exceed allowable deformation, the entire bulged area shall be repaired (See Figure S2.10.4.2-b). Unrelated bulges separated by non-deformed plate shall be independently evaluated.

FIGURE S2.10.4.2-b
CONTINUOUS BULGING (PILLOW/MATTRESS-EFFECTS) WHERE ONLY SOME BULGES EXCEED ALLOWABLE DEFORMATION



Item 22-39
V. Newton
7/17/24
Page **1** of **1**

NBIC Location: Part 2, 4.4.8.7 g)

General Description: Recommended clarification of requirements for Evaluating Local Thin Areas

Subgroup: Inspection

Task Group: V. Newton (PM), T. Barker, J. Morgan, B. Wilson

Submitted by: L. Ponce

Explanation of Need: The existing text may lead to confusion due to a misplaced comma after 'specified' in the first sentence and no reference to what is being specified in the paragraph. The proposed text is a way to tie in the specified requirement in paragraph (f).

4.4.8.7 EVALUATING PRESSURE-RETAINING ITEMS CONTAINING LOCAL THIN AREAS

f) Widely scattered corrosion pits may be left in the pressure-retaining item in accordance with the following requirements:

1. Their depth is not more than one-half the required thickness of the pressure-retaining item wall (exclusive of corrosion allowance);
2. The total area of the pits does not exceed 7 $in.^2$ (4,500 mm^2) within any 50 $in.^2$ (32,000 mm^2); and
3. The sum of their dimensions (depth and width) along any straight line within this 50 $in.^2$ (32,000 mm^2) area does not exceed 2 in. (50 mm).

g) If metal loss is less than the specified~~,~~ corrosion/erosion allowance and adequate thickness is available for future corrosion, then monitoring techniques should be established. If metal loss is greater than the specified corrosion/erosion allowance and repairs are not performed, ~~and~~ a detailed engineering evaluation shall be performed to ensure continued safe operation.

Typos and Clarifications to Part 2

1.3i) American Petroleum Institute/American Society of Mechanical Engineers - *API 579-1/ASME FFS-~~1~~ 1* (Fitness-For-Service)

2.3.6.4f)3)b. ~~Dents~~ Bulges in Heads

4.4.1b) Various assessment methods (see NBIC Part 2, 1.3), including those mentioned in this section (an example of guidelines for performing fitness for service assessments are referenced in ~~API recommended practice API 579 "Fitness for Service"~~ API 579-1/ASME FFS-1), can be used to establish the next inspection interval of a pressure-retaining item and to ensure safe operation. Condition assessment methods shall be subject to review and acceptance by the Jurisdiction.

S6.9d) American Petroleum Institute: ~~—~~API 579-1/ASME FFS-1, (Fitness for Service).

S9.3a)6) Compliance to product or industry standards, such as ~~ANSI K61~~CGA G-2.1, API 579-1/ASME FFS-1, or NFPA 58.

S11.4.2.7d) ~~ASME/API 579;~~API 579-1/ASME FFS-1

Action Item 24-48
Submitted by Michelle Vance
4/19/2024
Page **1** of **1**

Subject: Part 2, Table S9.4 - clarify service condition changes

Statement of Need: For Column 1, Row 7, please explain what gas services are being described. For Column 1, Row 10, please spell out what ICC is because the acronym is unclear (is this the manufacturer ICC or something else?)

Background: N/A

TABLE S9.4

EXAMPLES OF CHANGE OF SERVICE CONDITIONS

Change	Some Factors to Consider
LP Gas to Ammonia	• PWHT of Vessel During Construction Wet-fluorescent magnetic particle testing (WFMT) on all internal surfaces • Internal access of vessel is necessary, may need to install manhole • NFPA 58 should be consulted
Ammonia to LP gas	• NFPA 58 should be consulted for restrictions. • Wet-fluorescent magnetic particle testing (WFMT) on all internal • surfaces • Internal access of vessel is necessary., may need to install manhole • Also see, NBIC Part 2, 2.3.6.4, S7.8.6, S7.9
LP gas service: from above ground to underground	• Requires alterations (additional nozzles) • Corrosion protection • See NFPA 58
LP gas to air receiver	• Assurance of vessel cleanliness, i.e. removal of mercaptan • Appropriateness and number of inspection and drain openings • Corrosion allowance
Boiler Service: steam to hot water	• Nozzles may require modification for water inlet and outlet • Change of Pressure Relief Device
Boiler Service: High-Pressure to Low-Pressure	• Controls required by the LP boiler code • Safety Valve Change • Need for larger openings for steam outlets and safety relief valves
Sulfur Dioxide Service Sweet to Sour Gas Service	• Concern Over Hydrogen Cracking
Inert to Oxidizing or Reducing Atmosphere	• Inspection for Damage ~~mechinisims~~mechanisms that may be present from previous service life that is detrimental to the vessel in the new environment • Cleanliness of Hydrocarbons
Lethal Service to Non-Lethal	• Design Conditions and suitability for service
DOT Railcars and ~~of ICC~~ Transport Tanks to Stationary Service	• Prohibited by DOT regulations for permanent service • Temporary stationary service prohibited as per NFPA • Inspection or damage mechanisms that may be present from previous service life that is detrimental to the vessel in the new environment

Action Item 24-55
Submitted by Luis Ponce
4/26/2024
Page **1** of **1**

Subject: Overpressure protection considerations for a change in service.

Statement of Need: Overpressure protection can apply to both S9.3 a) Design Considerations and S9.3 c) Environmental. A change in design due to a change in service with regard to overpressure protection may be possible. In addition, S9.3 c) 2) could be explained in more detail to add considerations for a 'safe point of discharge' and 'environmental regulation compliance' if the change in service includes substances and applications that will be harmful to the environment.

Background: A NBBI staff review of Part 2 for any applicable editorial changes revealed some possible improvements to S9.3 a) and S9.3 c).

PROPOSAL

S9.3 FACTORS TO CONSIDER

Before a change of service is to be made, the owner or user shall consider and evaluate the effects of the new operating conditions or environment on the existing condition and suitability for service of the pressure-retaining item. Various factors will have an impact on the reliability of the pressure-retaining item in its new service environment. Changes can be successfully adopted providing there is an understanding of the effect on the pressure-retaining item. However, there are some cases where changes are detrimental to the existing pressure-retaining item. The owner or user should seek technical guidance of experienced personnel in appropriate areas affected by the change of service (e.g. design, metallurgy, or operations of the pressure retaining item).

The following is a listing of criteria that should be evaluated as appropriate. The criterion is not limited to that listed herein. Other factors may be considered as necessary~~:~~.

a) Design Consideration:
   1) Thickness of existing vessel material.
   2) Vessel or system flow rate or pressure.
   3) Weight of vessel with new contents.
   4) Existing or additional loads imposed on nozzles and highly stressed areas.
   5) Change in pressure or temperature~~,~~ and cycling.
   6) Compliance to product or industry standards, such as ~~ANSI K61~~CGA G-2.1, API 579, or NFPA 58.
   7) Overpressure protection requirements as applicable.

b) Material Consideration:
   1) Chemical and mechanical properties of existing material or any new material to be added or replaced to ensure it has the required strength and toughness to withstand the pressure and temperature effects of the new environment.
   2) Effects of erosion or corrosion.
   3) Time dependent effects on service life - creep or fatigue, or both effects combined.

c) Environment
   1) Physical condition of the pressure-retaining item.
   2) ~~Overpressure protection needs~~Considerations for safe point of discharge and environmental regulation compliance.
   3) Regulatory environment – Verification of compliance to new or existing jurisdictional rules or regulations.
   4) Vessel cleanliness – When changing lading fluids or contents consideration should be given to cleaning or decontaminating the vessel as appropriate.

Action Item 24-55
Submitted by Luis Ponce
5/9/2024
Page **1** of **1**

Subject: Add requirements for the drain valve to be locked/tagged open.

Statement of Need: Currently, there is no requirement for the drain valve or cock to be locked/tagged in the open position when between the stop valves in a required double block and bleed configuration. This item is created for the committee to consider adding this requirement for safety purposes.

Background: I conducted an investigation where a welder working on an offline boiler was severely burned because the drain valves were shut and not included in the lockout/tagout procedure. The reason the drain valves were shut was because the two stop valves leaked at their seats causing condensation to form in the desuperheater piping of the offline boiler. The welder was working several feet above this piping and eventually enough energy in the condensate caused a "steam burp" that reached and burned the welder.

PROPOSAL

2.2.6 INTERNAL INSPECTION

a) When a boiler is to be prepared for internal inspection, the water shall not be withdrawn until the setting has been sufficiently cooled at a rate to avoid damage to the boiler as well as additional preparations identified in NBIC Part 2, 1.4.1 and 1.5.3.

b) The owner or user shall prepare a boiler for internal inspection in the following manner:

1) Before opening the manhole(s) and entering any part of the boiler that is connected to a common header with other boilers, the required steam or water system stop valves (including bypass) ~~must~~ shall be closed, locked ~~out,~~ and/or tagged out ~~in accordance with the owner or user's procedures~~, and drain valves or cocks between the two closed stop valves shall be opened, locked and/or tagged out in accordance with the owner or user's procedures. After draining the boiler, the blowoff valves shall be closed, locked ~~out,~~ and/or tagged out in accordance with the owner ~~-~~ or user's procedures. Alternatively, lines may be blanked, or sections of pipe removed. Blowoff lines, where practicable, shall be disconnected between pressure parts and valves. All drains and vent lines shall be open.
2) The Inspector shall review all personnel safety requirements as outlined in NBIC Part 2, 1.4 prior to entry.

Note: If a boiler has not been properly prepared for an internal inspection, the Inspector shall decline to make the inspection.

Item 24-69
Submitted by Gary Scribner/Michelle Vance/Jodi Metzmaier/Terrence Hellman
7/3/2024
Page **1** of **1**

Subject: CO2 is heavier than air; Part 2, S12.4 c) should say "above" not "below"

Explanation of Need: CO2 is like the foam on a beer mug flowing over, it is heavier than air. being below and an air intake it goes down so should not be an issue, if it is above an air intake it will be dropping down and go into the air intake.

Background Information: I was the project manager on this item originally

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Part 2

S12.4 FILL BOX LOCATION / SAFETY RELIEF / VENT VALVE CIRCUIT TERMINATION
The inspection should verify that fill boxes and vent valve terminations are installed above grade, outdoors in an unenclosed, free airflow area, and that the fill connection is located so not to impede means of egress or the operation of sidewalk cellar entrance doors, including during the delivery process and that they are:

a) at least 3 ft (0.9 m) from any door or operable windows;
b) at least 3 ft (0.9 m) above grade;
c) not located within 10 ft (3 m) above, or from side to side at the same level ~~or below~~, ~~from~~ of any air intakes; and
d) not located within 10 ft (3 m) of stairwells that go below grade.

Note: Many systems installed prior to January 1, 2014, do not meet the above requirements and the local jurisdiction should be consulted for guidance.

NOTE: Part 1 is making this same change in S3.3

5.3.3 INSTRUCTIONS FOR COMPLETING THE FORM NB-136, REPLACEMENT OF STAMPED DATA FORM

~~14.~~ Item 14 shall ~~To~~ be completed by the ~~jurisdiction or Authorized Inspection Agency's authorized representative~~Authorized Jurisdictional Representative or Inspector.

14. If the original manufacturer is currently in business, concurrence shall be obtained by the owner or user.

    The requester shall submit the form, along with any attachments, to the jurisdiction where the pressure-retaining item is installed for approval. If there is no jurisdiction or the pressure-retaining item is a stock item, the requester shall submit the form (and any attachments) to a National Board Commissioned Inspector for approval.

After the form is authorized, it ~~will~~ shall be returned to the owner, user, original manufacturer, or "R" Certificate Holder who made the request. The requester is required to contact the jurisdiction or an Authorized Inspection Agency to provide a National Board Commissioned Inspector to witness the re-stamping or installation of the new nameplate. If the nameplate is being welded to the pressure-retaining boundary of the vessel, the welding shall be performed by an "R" Certificate Holder. The requester ~~will~~ shall provide the new nameplate or have on hand the tools to do the re-stamping in accordance with the original code of construction.

Items 15-17 shall be completed by the responsible party as indicated.

15. Once the re-stamping is completed, or the new nameplate is attached, the requester shall provide a true facsimile of the replacement stamping.

16. The owner, user, original manufacturer, or "R" Certificate Holder shall fill in their name (and "R" Certificate Number if an "R" Certificate Holder), signature, and the date of completion.

17. To be completed by the National Board Commissioned Inspector who witnessed the re-stamping or installation of the new nameplate.

~~**Note:** Once the form is completed, t~~The requester shall file a copy of the completed form with:

- ~~-~~the jurisdiction where the pressure-retaining item is installed (if applicable)~~,~~:
- the National Board~~, ~~: ~~and~~
- the owner or user of the pressure-retaining item (if the request was made by the original manufacturer or the "R" Certificate Holder); and
- ~~a copy of the form shall furthermore be provided upon request to~~ the Authorized Inspection Agency who witnessed the re-stamping or attachment of the new nameplate (upon request).

Item 24-74
Metzmaier
7/16/24
Page **1** of **1**

Item 21-25 is an item that has already passed and will be included in the 2025 edition; however, during an editorial review of passed items, the question of should "would be necessary" change to a "shall" was brought up. With this change the sentence was also reworded.

The below change is being made to new wording that will be published in the 2025 from item 21-25.

Part 2

2.3.6.5b)2)b. (a. was deleted so c. has become b.)

b. Pressure gages intended to measure the operating pressure in the vessel are not usually sensitive or easily read at low pressures approaching atmospheric. It may be advisable to install an auxiliary gage that reads inches of water (millimeters of mercury) and measures pressure from atmospheric to low pressures. This ensures there is zero pressure in the vessel before opening. ~~It would be necessary to protect the auxiliary low-pressure gage from the higher operating pressures.~~If installed, the auxiliary low-pressure gage shall be protected from the higher operating pressures.