

# Date Distributed: January 25th, 2017

**NATIONAL BOARD**

**INSPECTION CODE**

**COMMITTEE**

 MINUTES

Meeting of January 12th, 2017

San Diego, California

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The National Board of Boiler & Pressure Vessel Inspectors

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1. **Call to Order**

The meeting was called to order by Chair Don Cook at 7:59am local time.

1. **Introduction of Members and Visitors (Attachment Pages 2-5)**

Mr. Cook invited all members and visitors to introduce themselves. An attendance sheet was passed.

1. **Announcements**

Mr. Cook requested that all committee members use the microphone when speaking. Mr. Cook thanked National Board Executive Director Mr. Dave Douin and Assistant Executive Director Mr. Dick Allison for planning the meeting and Wednesday night reception. Mr. Cook also recognized Assistant Executive Director Mr. Chuck Withers for his contributions to the NBIC Committee. Mr. Withers plans to retire from the National Board on March 1st. Mr. Withers thanked the committee for their role in making the NBIC an internationally recognized standard. Mr. Cook also recognized State of California Senior Engineer Mr. Gary Teel. Mr. Cook announced that the draft of the 2017 edition of the NBIC had been previously approved by the NBIC Committee, and will be available for purchase on July 1st, 2017.

1. **Adoption of the Agenda**

A motion was made to adopt the agenda. Prior to approving the agenda, Mr. Cook added to the agenda a vote for the creation of Subgroup PRD. Additionally, Mr. Cook invited the Subcommittee secretaries to add any new items to the agenda. Mr. Mike Richards added no new items to the agenda. Mr. Mooney added items NB16-0502, NB17-0201, NB17-0202, and NB17-0203. Mr. Galanes added items NB16-2603 and IN17-0101. Mr. Cammeresi added items NB15-0108B, NB17-0401, NB17-0402, and NB17-0403.

The agenda was adopted as modified by a unanimous vote of the NBIC Committee.

1. **Approval of the Minutes of July 21st, 2016 Meeting**

Mr. Cook announced that the minutes from the July 2016 meeting were posted on the National Board website. The minutes were adopted as posted by a unanimous vote of the NBIC Committee.

1. **Review of Rosters**
	1. **Membership Nominations**
* Mr. Cook explained the current membership situation of the NBIC Committee. At the time of the meeting, the NBIC Committee had 20 members. The maximum number of members on the committee is 26 members. Ms. Melissa Wadkinson, Mr. Jim Getter, Mr. Angelo Bramucci, Mr. Ray Miletti, Mr. Randal Cauthon, Mr. Paul Schuelke, Mr. Darrell Graf, and Mr. Randy Austin submitted applications to become members of the NBIC Committee. Mr. Cook announced that there were three open spots on the NBIC Committee for Jurisdictional Authorities, one spot for Manufacturers, and one spot for National Board Certificate Holders. Mr. Austin was the only person applying for a Jurisdictional Authority position. Mr. Austin spoke about his qualifications for the NBIC Committee. Mr. Austin was approved as a member of the NBIC Committee by a unanimous voice vote. Ms. Wadkinson, Mr. Getter, Mr. Bramucci, Mr. Miletti, and Mr. Cauthon applied for the position of National Board Certificate Holder. Ms. Wadkinson, Mr. Getter, and Mr. Miletti spoke about their qualifications for the NBIC Committee. Paper ballots were distributed. Based upon the results of the paper ballot, Melissa Wadkinson was approved as a member of the NBIC Committee.

Mr. Jim Getter, Mr. Angelo Bramucci, Mr. Ray Miletti, Mr. Randal Cauthon, and Mr. Paul Schuelke applied for the position of Manufacturer. Mr. Schuelke spoke about his qualifications for the NBIC Committee. Paper ballots were distributed. No applicant received the required eleven votes. A runoff was held between the two applicants who received the most votes in the previous round of voting, Mr. Jim Getter and Mr. Ray Miletti. Paper ballots were distributed for the runoff. In the runoff, no applicant received the required eleven votes. Because of this, a second runoff was held between the two applicants. Paper ballots were distributed. Based upon the results of the paper ballot, Mr. Getter was approved as a member of the NBIC Committee.

Any appointment is subject to the approval of the Chairman of the Board of Trustees.

* Mr. Randy Austin and Mr. Rex Smith submitted applications to become members of SC Installation. Mr. Richards reported that SC Installation supports Mr. Austin and Mr. Smith’s membership to the committee. Mr. Austin and Mr. Smith were approved as members of SC Installation by a unanimous vote of the NBIC Committee. Any appointment is subject to the approval of the Chairman of the Board of Trustees.
* Mr. Todd Creacy, Mr. Darrell Graf, and Mr. Jason Safarz submitted applications to become members of SC Inspection. Mr. Mooney stated that SC Inspection approved Mr. Graf for membership to SC Inspection, but did not approve Mr. Creacy or Mr. Safarz because they were not present at the meeting. Mr. Graf was approved as a member of SC Inspection by a unanimous vote of the NBIC Committee. Any appointment is subject to the approval of the Chairman of the Board of Trustees. (Attachment Pages 24-29)
* Mr. Monte Bost submitted an application to become a member of SC Repairs and Alterations. Mr. Galanes reported that SC Repairs and Alterations does not currently want to take on any new members to maintain an efficient working size. Based on Mr. Galanes’ recommendation, no vote was taken.
	1. **Membership Reappointments**
* Mr. Brian Morelock, Mr. Venus Newton, Mr. Bryan Schulte, and Mr. Kevin Simmons were eligible for reappointment to the NBIC Committee. Mr. Schulte retired, so he was not reappointed. Mr. Morelock, Mr. Newton, and Mr. Simmons were approved for reappointment to the NBIC Committee by a unanimous vote of the NBIC Committee. Any appointments are subject to the approval of the Chairman of the Board of Trustees.
* Mr. Don Patten, Mr. Stanley Konopacki, and Mr. Edward Wiggins were eligible for reappointment to Subcommittee Installation. Mr. Don Patten, Mr. Stanley Konopacki, and Mr. Edward Wiggins were approved for reappointment to SC Installation by a unanimous vote of the NBIC Committee. Any appointments are subject to the approval of the Chairman of the Board of Trustees.
* Mr. Thomas Vandini was eligible for reappointment to Subcommittee Inspection. Mr. Thomas Vandini was approved for reappointment to SC Inspection by a unanimous vote of the NBIC Committee. Any appointments are subject to the approval of the Chairman of the Board of Trustees.
* Mr. Brian Morelock was eligible for reappointment to Subcommittee Repairs and Alterations. Mr. Brian Morelock was approved for reappointment to SC Repairs and Alterations by a unanimous vote of the NBIC Committee. Any appointments are subject to the approval of the Chairman of the Board of Trustees.
* Mr. Kim Beise and Mr. David McHugh were eligible for reappointment to Subcommittee PRD. Mr. Kim Beise and Mr. David McHugh were approved for reappointment to SC PRD by a unanimous vote of the NBIC Committee. Any appointment is subject to the approval of the Chairman of the Board of Trustees.
	1. **Officer Selection**
* Mr. Don Patten’s appointment as SC Installation Vice Chair had expired. Mr. Patten expressed that he wished to continue as Vice Chair. Mr. Richards reported that SC Installation supported Mr. Patten as SC Installation Vice Chair with a unanimous vote. Mr. Patten was approved for reappointment to SC Installation Vice Chair by a unanimous vote of the NBIC Committee. Any appointment is subject to the approval of the Chairman of the Board of Trustees.
1. **NB-240 Update**

A new revision of NB-240 was prepared that introduces term limits for NBIC Committee, Subcommittee, and Subgroup officers. Mr. Cook explained the rationale behind the change. The committee reviewed the wording of the change. Mr. Cook explained that the change limited officers to two consecutive three year terms. Additionally, he reported that the term limits will go into effect immediately after the change is approved by ANSI. All current chairs can finish their current term, but if they have reached the term limit they may not be reappointed. The revision was approved by the NBIC Committee with a unanimous vote. Additional approval from the NB Board of Trustees and ANSI is required before the change goes into effect. (Attachment Pages 6-26)

1. **Report of Subcommittees**

Subcommittee Repairs and Alterations Chair Mr. George Galanes reported on the following:

* 1. **Subcommittee Repairs and Alterations**
		1. **Interpretations**

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| **Item Number: IN15-0601** | **NBIC Location: Part 3, Section 3** | **Attachment Pages 27-28**  |
| **General Description:** Use of backing strips to install flush patches repair/alteration classification |
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| **Subgroup:** Repairs and Alterations**Task Group:** G Galanes (PM), B. Morelock, M. Webb, M. Bost |
| **Meeting Action:** Mr. Galanes reported that this item was approved by the subcommittee at the July 2016 NBIC meeting. He reported that the NBIC Committee requested the item be sent to letter ballot after the July 2016 meeting, but it was not sent to letter ballot in the intervening period. Mr. Cook asked a question about whether the interpretation response allowed for the reduction of joint efficiency. The NBIC Committee voted that the item be sent to letter ballot with a unanimous vote. |

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| **Item Number: IN15-0901** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** Installation of nozzle to the outside of a blind flange repair/alteration classification |
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| **Subgroup:** Repairs and Alterations**Task Group:** M. Toth (PM), R. Underwood, C. Hopkins, J. Walker |
|  |
| **Meeting Action:** Mr. Galanes reported that the task group reached out to the inquirer for additional background information. They received no response, so Subcommittee Repairs and Alterations voted to close the item and send an official letter to the commenter stating the reason for closing the item. The stated course of action was approved by the NBIC Committee with a unanimous vote.  |

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| **Item Number: IN15-1301** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** Does changing a bolt material require an "R" form and stamp? |
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| **Subgroup:** Repairs and Alterations**Task Group:** None assigned |
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| **Meeting Action:** Mr. Galanes requested Mr. Jamie Walker report on the item. Mr. Walker reported that the task group couldn’t come to a consensus, and that work would continue on the item between meetings.  |

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| **Item Number: IN16-0201** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** Sequence for Stamping and R Report Signing |
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| **Subgroup:** Repairs and Alterations**Task Group:** M. Bost (PM), B. Schaefer, R. Miletti, B. Schulte**Meeting Action:** Mr. Galanes requested Mr. Ben Schaefer report on the item. Mr. Schaefer reported that the item was related to sequence for stamping and R report signing. The subcommittee decided the current code was clear as is. Because of this, SC Repairs and Alterations voted to close the item with no action with a unanimous vote. The NBIC Committee voted to close the item with no action with a unanimous vote. |

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| **Item Number: IN16-0401** | **NBIC Location: Part 3** | **Attachment Pages 29-30**  |
| **General Description:** Certificates of Authorization for companies in a merger or acquisition |
|  |
| **Subgroup:** Repairs and Alterations**Task Group:** J. Amato (PM), R. Cauthon, B. Wielgoszinski, G. Scribner**Meeting Action:** Mr. Galanes requested Mr. Joel Amato report on the item. Mr. Amato reviewed the content of the interpretation request, relating to quality programs in a company with multiple subsidiaries. Mr. Amato outlined the proposed interpretation response drafted by the task group. The interpretation response was previously approved by a unanimous vote of SC Repairs and Alterations. Additionally, SG Repairs and Alterations voted to open new item NB17-0302 to address questions raised while responding to the interpretation. Mr. Cook raised some concerns about the sharing of quality program documents between subsidiaries. Mr. Cook requested clarity be added that each subsidiary has responsibility for quality program documents. Mr. Scribner requested to be added to the task group. The NBIC Committee voted that the item be sent to letter ballot with a unanimous vote. |

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| **Item Number: IN16-0801** | **NBIC Location: Part 3** | **Attachment Pages 31-32**  |
| **General Description:** Result of NB16-0810; heat recovery steam generator alterations |
|  |
| **Subgroup:** Repairs and Alterations**Task Group:** None assigned.**Meeting Action:** Mr. Galanes requested that Mr. Rob Troutt report on the item. Mr. Troutt read the proposed interpretation response. The interpretation response was previously approved by a unanimous vote of SC Repairs and Alterations. Mr. Cook suggested a minor editorial change. Mr. Troutt explained the reason for using the term “Manufacturer’s design report” versus “Manufacturer’s data report”. The interpretation response was approved as modified by a unanimous vote of the NBIC Committee. |

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| **Item Number: IN16-1001** | **NBIC Location: Part 3** | **Attachment Page 33**  |
| **General Description:** Is an increase in bracket loading that only increases local stress in a pressure part considered an alteration? |
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| **Subgroup:** Repairs and Alterations**Task Group:** None assigned.**Meeting Action:** Mr. Galanes requested that Mr. Craig Hopkins report on the item. Mr. Hopkins read the two interpretation questions and proposed interpretation responses. The responses were previously approved by a unanimous vote of SC Repairs and Alterations. Discussion was held about the definition of a bracket. Discussion was held about whether the second interpretation question should be approved as an interpretation, or it should be included as a comment in the letter to the commenter. After discussion, it was decided that the second interpretation question and response would not be officially approved as an interpretation, but instead be included in the letter to the commenter. The first question would be officially approved as an interpretation. The previously stated course of action was approved by a unanimous vote of the NBIC Committee. |

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| **Item Number: IN16-1101** | **NBIC Location: Part 3** | **Attachment Pages 34-36**  |
| **General Description:** In case of alteration of Heat Exchanger - Tube side only, is it allowed mention MAWP for tube side only on the Alteration nameplate, as alteration was done only on tube side. |
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| **Subgroup:** Repairs and Alterations**Task Group:** None assigned.**Meeting Action:** Mr. Galanes requested that Mr. Morelock report on the item. Mr. Morelock read the proposed interpretation response. Mr. Cook asked if the interpretation response lined up with current practice. Mr. Riley expressed his support for the interpretation response because it increases clarity about the work that has been performed on a vessel. Mr. Wielgoszinski and Mr. Morelock also expressed their support for the interpretation response. The response was previously approved by a unanimous vote of the NBIC Committee. The interpretation response was approved by a unanimous vote of the NBIC Committee. |

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| **Item Number: IN16-1201** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** Are new calculations required if a routine repair is done with material that has a greater allowable stress than the original material? |
|  |
| **Subgroup:** Repairs and Alterations**Task Group:** None assigned.**Meeting Action:** Mr. Galanes requested that Mr. Carter report on the item. Mr. Carter reported that he has contacted the inquirer, and is waiting on a response before more work can continue.  |

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| **Item Number: IN16-1301** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** To determine if a liquid pressure test must be deemed impracticable before NDE can be performed to verify the integrity of repairs to pressure retaining items and connecting welds of replacement parts. |
|  |
| **Subgroup:** Repairs and Alterations**Task Group:** None assigned.**Meeting Action:** Mr. Galanes requested that Mr. Carter report on the item. Mr. Carter explained the position of the code on this item. Mr. Carter reported that he is in contact with the inquirer, and a course of action will be determined after more discussion with the inquirer. |

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| **Item Number: IN17-0101** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** May the certificate owner’s audit responsibilities be extended to limit the ANIS audit to areas of responsibility required to be continually maintained such as training, audits, organizational structure, QA Program revisions, etc. when no (physical) work is performed. |
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| **Subgroup:** Repairs and Alterations**Task Group:** NR Task Group**Meeting Action:** Mr. Galanes requested that Mr. Paul Edwards report on the item. Mr. Edwards reported on the NR Task Group discussion of the item. He stated that a new action item might result from this interpretation question. |

* + 1. **Action Items – Old Business**

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| **Item Number: NB12-0801** | **NBIC Location: Part 3** | **Attachment Pages 37-41** |
| **General Description:** Add requirements for repair and alteration of gasketed PHEs in the field |
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| **Subgroup:** Repairs and Alterations**Task Group:** R. Cauthon (PM), B. Wielgoszinksi, N. Carter |
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| **Meeting Action:** Mr. Galanes requested that Mr. Nathan Carter report on this item. Mr. Carter presented a proposed change. The item was previously approved by SC Repairs and Alterations with a unanimous vote. Mr. Galanes requested the item be sent to letter ballot for the NBIC Committee. The item was sent to letter ballot by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB13-1401** | **NBIC Location: Part 3, S1.9.2** | **No Attachment** |
| **General Description:** Add wording in this section regarding boiler tube welding |
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| **Subgroup:** Locomotive**Task Group:** R. Stone (PM) |
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| **Meeting Action:** Mr. Galanes reported that no action was taken on this item. |

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| **Item Number: NB13-1405** | **NBIC Location: Part 3, S1.2.9** | **Attachment Page 42** |
| **General Description:** Add requirements for throttle pipes, dry pipes, superheater headers, and front end steam pipes |
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| **Subgroup:** Locomotive**Task Group:** R. Stone (PM) |
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| **Meeting Action:** Mr. Galanes reported that this item will be sent to SG Locomotive letter ballot. |

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| **Item Number: NB13-1407** | **NBIC Location: Part 3, S1** | **Attachment Page 43** |
| **General Description:** Add requirements for repair and alteration of bolts, nuts, and studs in locomotive boilers |
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| **Subgroup:** Locomotive**Task Group:** R. Stone (PM) |
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| **Meeting Action:** Mr. Galanes reported that this item will be sent to SG Locomotive letter ballot. |

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| **Item Number: NB13-1408** | **NBIC Location: Part 3, S1** | **No Attachment** |
| **General Description:** Add requirements for repair and alteration of locomotive boilers with threaded boiler studs of the taper thread and straight thread varieties |
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| **Subgroup:** Locomotive**Task Group:** R. Stone (PM) |
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| **Meeting Action:** Mr. Galanes reported that no action was taken on this item. |

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| **Item Number: NB15-1602** | **NBIC Location: Part 3, S2.7.1** | **No Attachment** |
| **General Description:** Revise material list for historical boiler reports to include bolts, studs, nuts and formed pressure parts |
|  |
| **Subgroup:** Historical**Task Group:** T. Dillon (PM), M. Wahl, G. Galanes |
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| **Meeting Action:** Mr. Galanes requested that Mr. Amato report on this item. Mr. Amato stated work was ongoing. |

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| **Item Number: NB15-2208** | **NBIC Location: Part 3, S3** | **No Attachment** |
| **General Description:** Investigate repair options for graphite block heat exchangers |
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| **Subgroup:** Graphite**Task Group:** Greg Becherer (PM) **Meeting Action:** Mr. Galanes reported that no action was taken on this item. |

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| **Item Number: NB15-2210** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** Reduce cementing requirements for plugging of tubes |
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| **Subgroup:** Graphite**Task Group:** C. Cary (PM) **Meeting Action:** Mr. Galanes reported that no action was taken on this item. |

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| **Item Number: NB16-0810** | **NBIC Location: Part 3, 3.4.3 e)** | **Attachment Page 44**  |
| **General Description:** Add additional example of alteration relating to burners |
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| **Subgroup:** Repairs and Alterations**Task Group:** G. Scribner**Meeting Action:** Mr. Galanes requested that Mr. Troutt report on the item. Mr. Troutt reported that this item resulted from interpretation IN16-0801. A minor editorial change was included in the proposal. Discussion was held about the difference between “Manufacturer’s Data Report” and “Manufacturer’s design report”. Mr. Troutt suggested changing “Manufacturer’s Data Report” to “Manufacturer’s design report”. Mr. Wielgoszinski stated that he preferred the wording to stay as is. The item was previously approved by SC Repairs and Alterations by a unanimous vote. The NBIC Committee sent the item to letter ballot with a unanimous vote. |

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| **Item Number: NB16-1402** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** Life extension for high pressure vessels above 20 years |
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| **Subgroup:** FRP**Task Group:** M. Gorman (PM)**Meeting Action:** Mr. Galanes reported that no action was taken on this item. |

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| **Item Number: NB16-1403** | **NBIC Location: Part 3, S4** | **No Attachment** |
| **General Description:** Add information on repair of high pressure vessels |
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| **Subgroup:** FRP**Task Group:** N. Sirosh (PM)**Meeting Action:** Mr. Galanes reported that no action was taken on this item. |

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| **Item Number: NB16-1801** | **NBIC Location: Part 3, S1** | **No Attachment** |
| **General Description:** Review Part 3 S1 for revisions based on the publication of ASME Section 1, Part PL |
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| **Subgroup:** Locomotive**Task Group:** L. Moedinger (PM)**Meeting Action:** Mr. Galanes reported that no action was taken on this item. |

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| **Item Number: NB16-2001** | **NBIC Location: Part 3, 1.6.1 c)** | **Attachment Pages 45-46** |
| **General Description:** Update language about record maintenance in Table 1.6.1 c) |
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| **Subgroup:** Repairs and Alterations**Task Group:** J. Pillow (PM)**Meeting Action:** Mr. Galanes read a proposed code change. The proposal was previously approved by a unanimous vote of SC Repairs and Alterations. Mr. Galanes reported that a similar change was previously undertaken in ASME BPV Section I, and will be included in the 2017 edition of that code. Mr. Cook requested that a change be made because the current wording is ambiguous. Mr. Hopkins stated that the current wording allows for a loophole for contractors. The item was sent to a review and comment letter ballot by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB16-2501** | **NBIC Location: Part 3, S1** | **No Attachment** |
| **General Description:** Change “radiographic” to “volumetric” to allow for ultrasonic  |
|  |
| **Subgroup:** Locomotive**Task Group:** L. Moedinger (PM)**Meeting Action:** Mr. Galanes reported that SC Repairs and Alterations voted to close this item with no action taken. The item was closed with no action by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB16-2504** | **NBIC Location: Part 3, S1** | **Attachment Pages 47-48**  |
| **General Description:** Evaluate adding SA-234 to the piping reference table S1.1.3.1 |
|  |
| **Subgroup:** Locomotive**Task Group:** D. Griner, M. Janssen**Meeting Action:** Mr. Galanes reported that this item will be sent to SG Locomotive letter ballot. |

* + 1. **Action Items – New Business**

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| **Item Number: NB16-0301** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** Based on IN16-0201, address sequence for stamping and R report signing |
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| **Subgroup:** SG Repairs and Alterations**Task Group:** M. Bost (PM)**Meeting Action:** Mr. Galanes requested that Mr. Ben Schaefer report on this item. He reported that the item was opened as a result of IN16-0201. The item was closed with no action by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB16-0302** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** Encapsulation over cracks |
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| **Subgroup:** SG Repairs and Alterations**Task Group:** None assigned**Meeting Action:** Mr. Galanes reported that it is not possible to encapsulate over cracks. Therefore, SC Repairs and Alterations voted to close the item with no action by a unanimous vote. Mr. Cook shared certain situations where encapsulation of cracks can be acceptable. The NBIC Committee voted to close this item with no action by a unanimous vote. |

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| **Item Number: NB16-0303** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** Fillet welded patches |
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| **Subgroup:** SG Repairs and Alterations**Task Group:** None assigned**Meeting Action:** Mr. Galanes reported that a proposal is being developed and should be available at the next meeting. |

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| **Item Number: NB16-0504** | **NBIC Location: Part 3, Section 2** | **No Attachment** |
| **General Description:** Ensure SWPS reference table is up-to-date |
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| **Subgroup:** SG Repairs and Alterations**Task Group:** J. Sekely**Meeting Action:** Mr. Galanes reported that no new information had been received from Mr. Sekely on new SWPSs. |

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| **Item Number: NB16-0608** | **NBIC Location: Part 3, 1.8.2** | **No Attachment** |
| **General Description:** Address Nuclear QA program requirements for owner and certificate holder |
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| **Subgroup:** Repairs and Alterations**Task Group:** NR Task Group**Meeting Action:** Mr. Galanes requested Mr. Edwards report on this item. Mr. Edwards gave a brief summary of NR Task Group discussion on this item. |

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| **Item Number: NB16-0609** | **NBIC Location: Part 3, 1.8.7 and 1.8.8** | **No Attachment** |
| **General Description:** Add requirements from 1.8.6 l) 2) for Category 2 and 3 for accreditation of calibration activities |
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| **Subgroup:** Repairs and Alterations**Task Group:** NR Task Group**Meeting Action:** Mr. Galanes requested Mr. Edwards report on this item. Mr. Edwards gave a brief summary of NR Task Group discussion on this item. |

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| **Item Number: NB16-0610** | **NBIC Location: Part 3, 1.8** | **Attachment Page 49** |
| **General Description:** Review scope statements for NR Category 3 in regards to Section VIII, B31.7, etc. |
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| **Subgroup:** Repairs and Alterations**Task Group:** NR Task Group**Meeting Action:** Mr. Galanes requested Mr. Edwards report on this item. The NR Task Group developed a proposal for this item. The proposal was previously approved by a unanimous vote of the NBIC Committee. The proposal clarifies NR program categories as defined in NBIC Part 3, 1.8. The proposal was approved by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB16-1302** | **NBIC Location: Part 3, S3.2** | **No Attachment** |
| **General Description:** Pressure test requirements rewrite for graphite vessels |
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| **Subgroup:** Graphite**Task Group:** None assigned**Meeting Action:** Mr. Galanes reported that no action was taken. |

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| **Item Number: NB16-1303** | **NBIC Location: Part 3, S3.5.1 f)** | **No Attachment** |
| **General Description:** Revise wording mandating examination and evaluation for graphite vessels |
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| **Subgroup:** Graphite**Task Group:** None assigned**Meeting Action:** Mr. Galanes reported that no action was taken. |

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| **Item Number: NB16-1502** | **NBIC Location: Part 3** | **Attachment Pages 50-56** |
| **General Description:** Develop supplement for repairs and alterations based on international construction standards |
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| **Subgroup:** SG Repairs and Alterations**Task Group:** International Repair Supplement Task Group**Meeting Action:** Mr. Galanes requested that Mr. Withers report on this item. Mr. Withers reported that the item came out of the National Board BOT Strategic Plan, and is intended to make the NBIC easier to use for the international audience. Mr. Withers gave a brief presentation on the project plan. The presentation is attached. |

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| **Item Number: NB16-2602** | **NBIC Location: Part 3, Section 9** | **No Attachment** |
| **General Description:** Add definitions for practicable and impracticable to glossary |
|  |
| **Subgroup:** SG Repairs and Alterations**Task Group:** R. Underwood**Meeting Action:** Mr. Galanes reported that work is ongoing. Mr. Wielgoszinski reported that this was originally planned to be submitted as a code change, but the task group might instead issue an interpretation. |

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| **Item Number: NB16-2603** | **NBIC Location: Part 3, Section 4** | **No Attachment** |
| **General Description:** Change the maximum test pressure requirement when performing liquid pressure tests of repair activities. |
|  |
| **Subgroup:** SG Repairs and Alterations**Task Group:** None assigned**Meeting Action:** Mr. Galanes requested that Mr. Monte Bost report on this item. Mr. Bost read the proposed code change to the committee. He explained the rationale for the change was to harmonize NBIC requirements with original code of construction requirements. Mr. Bost reported that similar wording should be added to paragraph 4.4.2. The item was previously approved by a unanimous vote of SC Repairs and Alterations. Mr. Galanes requested that the item be withdrawn to the subcommittee so they can add similar wording to 4.4.2. |

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| **Item Number: NB16-2701** | **NBIC Location: Part 3, S4.18.2.1 b)** | **No Attachment** |
| **General Description:** Include "test patch" synonym "de-bond or peel test" |
|  |
| **Subgroup:** SG FRP**Task Group:** T. Cowley**Meeting Action:** Mr. Galanes reported that no action was taken on this item. |

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| **Item Number: NB16-2901** | **NBIC Location: Part 3, Sections 1 and 3** | **Attachment Page 82**  |
| **General Description:** Result of PR16-0201, add additional requirements related to mechanical repairs |
|  |
| **Subgroup:** SG Repairs and Alterations**Task Group:** None assigned**Meeting Action:** Mr. Galanes requested that Mr. Rick Valdez report on the item. Mr. Valdez reported that work is ongoing on this item. |

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| **Item Number: NB16-3001** | **NBIC Location: Part 3, 5.6** | **Attachment Page 57** |
| **General Description:** Result of PR16-0701, review form registration log requirements |
|  |
| **Subgroup:** SG Repairs and Alterations**Task Group:** None assigned**Meeting Action:** Mr. Galanes requested that Ms. Kathy Moore report on the item. Ms. Moore reported that the suggested changes came from a public review comment. Mr. Webb read the proposal to the committee. The item was previously approved by SC Repairs and Alterations with a unanimous vote. Mr. Rick Valdez stated that he disagreed with description of work being included on the form log. The item was approved by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB16-3002** | **NBIC Location: Part 3, 3.2.2 e)** | **No Attachment** |
| **General Description:** Result of PR16-0704, clarify that pressure tests of level and duration required by original COC are sometimes permissible after installation |
|  |
| **Subgroup:** SG Repairs and Alterations**Task Group:** None assigned**Meeting Action:** Mr. Galanes requested that Mr. Webb report on the item. Mr. Webb reported that the item was based on a public review comment. Mr. Webb explained that the commenter’s proposed change added confusion, and that the current wording was preferable. This item was previously closed with no action by a unanimous vote of SC Repairs and Alterations. The item was closed with no action by a unanimous vote of the NBIC Committee. |

* 1. **Subcommittee Pressure Relief Devices**

Subcommittee Pressure Relief Devices Chair Mr. Sid Cammeresi reported on the following:

* + 1. **Interpretations**

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| **Item Number: IN16-0901** | **NBIC Location: Part 2, 4** | **No Attachment** |
| **General Description:** In NBIC Part 2, Sec. 2.5.7, g), does the phrase “organization accredited by the National Board” include a VR Certificate Holder? |
|  |
| **Task Group:** None assigned**Meeting Action:** Mr. Cammeresi read an interpretation question, and presented the committee’s modified question and response. The question was modified to include the “T/O” Certificate Holders as organizations accredited by the National Board. The response was previously approved by a unanimous vote of SC PRD. Discussion was held about a previous code change that supports the interpretation response. Mr. Scribner requested delaying the interpretation response until the 2017 edition is published because the interpretation response is dependent upon new text in the 2017 edition. Mr. Renaldo suggested changing the interpretation response to rely only on text shown in the 2015 edition. Mr. Cammeresi agreed to withdraw the item until the July 2017 meeting. |

* + 1. **Action Items – Old Business**

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| **Item Number: NB12-0901** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** Prepare a guide for repair of tank vents |
|  |
| **Task Group:** D. DeMichael (PM), K. Simmons, B. Donalson, B. Dobbins, K. Beise, B. Nutter |
|  |
| **Meeting Action:** Mr. Cammeresi reported that the task group has developed and finalized the table of contents for the proposed guide. The task group has assigned each item in the table of contents to members of the task group.  |

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| **Item Number: NB14-0602A** | **NBIC Location: Part 1**  | **No Attachment** |
| **General Description:** Improve index in Part 1 relating to pressure relief devices |
|  |
| **Task Group:** B. Anthony (PM), M. Broedeur, S. Cammeresi |
|  |
| **Meeting Action:** Mr. Cammeresi reported that this item is on hold. |

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| **Item Number: NB14-0602B** | **NBIC Location: Part 2** | **No Attachment** |
| **General Description:** Improve index in Part 2 relating to pressure relief devices |
|  |
| **Task Group:** D. DeMichael, B. Dobbins, B. Donalson |
|  |
| **Meeting Action:** Mr. Cammeresi reported that this item is on hold. |

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| **Item Number: NB14-0602C** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** Improve index in Part 3 relating to pressure relief devices |
|  |
| **Task Group:** B. Nutter (PM), R. McCaffrey, T. Patel, K. Simmons |
|  |
| **Meeting Action:** Mr. Cammeresi reported that this item is on hold. |

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| **Item Number: NB15-0108B** | **NBIC Location: Part 1** | **No Attachment** |
| **General Description:** Address pressure relief devices in new supplement on high temperature hot water boilers |
|  |
| **Task Group:** A. Renaldo |
|  |
| **Meeting Action:** Mr. Cammeresi reported that this item is being jointly developed with SC Installation. Mr. Renaldo and Ms. Wadkinson are working together to develop the text of the new supplement. |

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| **Item Number: NB15-0305** | **NBIC Location: Part 1** | **No Attachment** |
| **General Description:** Create Guidelines for Installation of Overpressure Protection by System Design.  |
|  |
| **Task Group:** D. Marek (PM), B. Nutter, A. Renaldo |
|  |
| **Meeting Action:** Mr. Cammeresi requested that Mr. Daniel Marek report on this item. Mr. Marek reported that work is ongoing, and a proposal should be ready in July 2017. |

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| **Item Number: NB15-0307** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** Create Guidelines for Repair of Pin Devices.  |
|  |
| **Task Group:** D. McHugh (PM), J. Satterthwaite |
|  |
| **Meeting Action:** Mr. Cammeresi reported that a new task group was appointed at the subcommittee meeting, and that the task group has gathered information from three manufacturers. The group is working to develop a table of contents for the new guide, and then will develop the wording for the proposal. |

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| **Item Number: NB15-0308** | **NBIC Location: Part 1** | **No Attachment** |
| **General Description:** Create Guidelines for Installation of Pressure Relief Devices for Organic Fluid Vaporizers. |
|  |
| **Task Group:** T. Patel (PM), K. Beise, B. Dobbins, B. Nutter |
|  |
| **Meeting Action:** Mr. Cammeresi reported that the task group developed a proposal, but that it wasn’t yet ready for ballot. The item will be sent to review and comment letter ballot for SC PRD. |

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| **Item Number: NB15-0310** | **NBIC Location: Part 3, 1.7.5.4** | **No Attachment** |
| **General Description:** Give Guidance as to Which Spring Chart Should be used in Repairs.  |
|  |
| **Task Group:** A. Cox (PM), B. Nutter, M. Brodeur, T. Patel, K. Simmons, R. McCaffrey |
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| **Meeting Action:** Mr. Cammeresi reported that no progress was made. |

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| **Item Number: NB15-0314** | **NBIC Location: Part 1, 3.9.4.2** | **Attachment Page 58** |
| **General Description:** Review of Y-Base or Valve less Headers for Use in T&P Valve Installations.  |
|  |
| **Task Group:** D. McHugh (PM), B. Nutter, D. Marek |
|  |
| **Meeting Action:** Mr. Cammeresi presented a proposal for code change to the NBIC Committee. The item was previously approved by a unanimous vote of SC PRD. Mr. Cammeresi explained that the allowance for Y bases was being removed. Mr. Cook clarified that the change will be made both to Part 1 and Part 4. Mr. Cook requested the item be sent to letter ballot so SC Installation members have more time to review the item. This item was sent to letter ballot by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB15-0315** | **NBIC Location: Part 1, 4.5.6 and 5.3.6** | **No Attachment** |
| **General Description:** Review isolation Valve Requirements.  |
|  |
| **Task Group:** D. DeMichael (PM), B. Nutter, A. Renaldo, D. Marek |
|  |
| **Meeting Action:** Mr. Cammeresi reported that the task group has developed language to add to the code, but is still considering whether a supplement on isolation valves would be preferable. |

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| **Item Number: NB15-0321** | **NBIC Location: Part 2, 2.5.7 a)** | **No Attachment** |
| **General Description:** Review testing requirements for inservice testing of pressure relief devices |
|  |
| **Task Group:** A. Renaldo (PM), J. Satterthwaite, A. Cox |
|  |
| **Meeting Action:** Mr. Cammeresi requested that Mr. Adam Renaldo report on this item. Mr. Renaldo reported that a proposal has been drafted, but that it wasn’t ready to move past Subcommittee PRD. Mr. Renaldo asked if requirements for operational inspection of valves and rupture disks should be in the same section or separated into distinct sections. Mr. Wielgoszinski requested they put in separate sections for clarity. |

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| **Item Number: NB15-0324** | **NBIC Location: Part 2** | **No Attachment** |
| **General Description:** Based on IN15-0301; the Sub-Committee on Pressure Relief Devices recognizes a need to create guidelines for storage and shelf life with respect to inspection and testing frequencies. |
|  |
| **Task Group:** A. Renaldo (PM), B. Nutter, K. Simmons, D. Marek |
|  |
| **Meeting Action:** Mr. Cammeresi requested that Mr. Renaldo report on this item. The task group has developed a proposal, which should be ready for vote in July 2017. |

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| **Item Number: NB16-0401** | **NBIC Location: Part 4** | **No Attachment** |
| **General Description:** Seals matching VR nameplate |
|  |
| **Task Group:** S. Irvin, T. Patel, D. Marek, M. Brodeur, B. Nutter**Meeting Action:** Mr. Cammeresi reported that no progress was made. |

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| **Item Number: NB16-0603** | **NBIC Location: Part 3, S7 and S9** | **Attachment Pages 59-61** |
| **General Description:** Add requirements for when the "NR" program is applied to safety related relief valves in nuclear service, came from NR task group |
|  |
| **Task Group:** NR Task Group**Meeting Action:** Mr. Cammeresi reported that this item recently failed a SC PRD letter ballot. The NR Task Group modified the proposal based on the comments. The changes satisfied the SC PRD comments. The item will be letter balloted to SC PRD. |

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| **Item Number: NB16-0805** | **NBIC Location: Part 1** | **No Attachment** |
| **General Description:** Update language about pipe material able to handle temperature requirements, in line with IMC |
|  |
| **Task Group:** G. Scribner**Meeting Action:** Mr. Cammeresi requested that Mr. Renaldo report on this item. Mr. Renaldo reported that a proposal is ready and will likely be letter balloted to SC PRD before the July 2017 meeting. |

* + 1. **Action Items – New Business**

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| **Item Number: NB16-0607** | **NBIC Location: Part 4** | **No Attachment** |
| **General Description:** Review scope of Part 4 VR program related to re-rating pressure relief devices |
|  |
| **Task Group:** None assigned**Meeting Action:** Mr. Cammeresi reported that SC PRD closed this item with no action with a unanimous vote. This decision was made because re-rating does not apply to pressure relief devices. The item was closed with no action by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB16-1202** | **NBIC Location: Part 1, 2.9.6 h)** | **No Attachment** |
| **General Description:** Define what constitutes a "safe point of discharge" |
|  |
| **Task Group:** None assigned**Meeting Action:** Mr. Cammeresi reported that SC PRD closed this item with no action with a unanimous vote. This action was taken because “safe point of discharge” is already defined in the glossary. The item was closed with no action by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB16-3101** | **NBIC Location: Part 4** | **No Attachment** |
| **General Description:** Result of PR16-0501, add additional information about T/O program to NBIC |
|  |
| **Task Group:** None assigned**Meeting Action:** Mr. Cammeresi presented a code change proposal to the NBIC Committee. The item was previously approved by a unanimous vote of SC PRD. Mr. Beirne reported on the content of the proposal. The proposal will include “T/O” Certificate Holders in the list of qualified organizations under Part 4, paragraph 3.2.5.2. Mr. Cook pointed out a discrepancy between “organization accredited by the National Board” and “organization authorized by the Jurisdiction.” Mr. Cammeresi withdrew the item for further work. |

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| **Item Number: NB16-3102** | **NBIC Location: Part 4** | **Attachment Pages 62-63** |
| **General Description:** Result of PR16-0502, update Part 4 for consistency with changes to ASME marking requirements |
|  |
| **Task Group:** None assigned**Meeting Action:** Mr. Cammeresi presented a proposal for code change. The change will update language in the NBIC for consistency with new ASME marking requirements. The item was previously approved by a unanimous vote of SC PRD. Mr. Simmons explained the new marking system at ASME to the committee. Mr. Hopkins requested that the word ‘supplanted’ be removed from the proposal. The item was approved as presented by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB16-3201** | **NBIC Location: Part 4** | **No Attachment** |
| **General Description:** Result of PR16-0601, add allowance for supplementary loading system for direct spring loaded safety valves |
|  |
| **Task Group:** None assigned**Meeting Action:** Mr. Cammeresi reported that SC PRD closed this item with no action with a unanimous vote. This decision was made because ASME code does not allow for supplementary loading systems, so there is no need to address the repair of these valves. The item was closed with no action by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB17-0401** | **NBIC Location: Part 4** | **No Attachment** |
| **General Description:** Valve drain plug recommendations for shipping |
|  |
| **Task Group:** K. Beise (PM), M. Brodeur, B. Hart**Meeting Action:** Mr. Cammeresi reported that a draft had been developed to address drain plugs in valves. Work is ongoing, and the proposal should be ready to present to the NBIC Committee at the July 2017 meeting. |

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| **Item Number: NB17-0402** | **NBIC Location: Part 4** | **No Attachment** |
| **General Description:** Review Part 4 index |
|  |
| **Task Group:** S. Irvin (PM), K. Simmons, K. Beise**Meeting Action:** Mr. Cammeresi reported that this item was opened at the subcommittee meeting and that a task group was assigned. |

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| **Item Number: NB17-0403** | **NBIC Location: Part 4** | **No Attachment** |
| **General Description:** Review Part 4 for including new T/O requirements |
|  |
| **Task Group:** K. Simmons (PM), D. McHugh**Meeting Action:** Mr. Cammeresi reported that this item was opened at the subcommittee meeting and that a task group was assigned. |

* 1. **Subcommittee Installation**

Subcommittee Installation Chair Mr. H. Michael Richards reported on the following:

* + 1. **Interpretations**

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| **Item Number: IN16-0701** | **NBIC Location: Part 1** | **Attachment Pages 64-65** |
| **General Description:** Result of NB16-0801; Is it standard operating procedure (per NBIC) to do hydrostatic pressure tests on installed ASME Section IV boilers at 150% of the rated pressure as part of the installation inspection?**Subgroup:** SG Installation |
|  |
| **Task Group:** None assigned**Meeting Action:**Mr. Richards requested that Ms. Wadkinson report on this item. She reported that this item was approved by the subcommittee at the July 2016 NBIC meeting. She reported that the NBIC Committee requested the item be sent to letter ballot after the July 2016 meeting, but it was not sent to letter ballot in the intervening period. Mr. Hopkins stated that Jurisdictions may require additional tests, and that information should be included in the response. Mr. Wielgoszinski asked the opinion of Jurisdictional chiefs on this matter. The NBIC Committee voted that the item be sent to letter ballot with a unanimous vote. |

* + 1. **Action Items – Old Business**

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| **Item Number: NB11-1901** | **NBIC Location: Part 1** | **No Attachment** |
| **General Description:** Add guidance for the safe installation of high pressure composite pressure vessels operating in close proximity to the public |
|  |
| **Subgroup:** FRP**Task Group:** M. Richards (PM), S. Konopacki and D. Patten |
|  |
| **Meeting Action**: Mr. Richards reported that no progress was made. |

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| **Item Number: NB12-0302** | **NBIC Location: Part 1** | **No Attachment** |
| **General Description:** Add installation requirements for pressure vessels for human occupancy (PVHOs) |
|  |
| **Subgroup:** Installation**Task Group:** B. Moore (PM), T. Creacy, T. Millette, M. Richards |
|  |
| **Meeting Action**: Mr. Richards reported that Mr. Scribner was removed from the task group and Mr. Milton Washington was added to the task group. The task group is continuing to research PVHOs. |

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| **Item Number: NB14-0403** | **NBIC Location: Part 1**  | **No Attachment** |
| **General Description:** Identify terms from Part 1 that need to be added to the index |
|  |
| **Subgroup:** Installation**Task Group:** B. Moore (PM), M. Richards, T. Creacy, M. Washington |
|  |
| **Meeting Action**: Mr. Richards requested that Mr. Brian Moore report on this item. Mr. Moore reported that the task group is looking for items to add to the index. Mr. Moore is going to submit terms to National Board staff so staff can add them to the index. |

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| **Item Number: NB15-0108A** | **NBIC Location: Part 1** | **No Attachment** |
| **General Description:** Add a supplement to address high temperature hot water boilers |
|  |
| **Subgroup:** Installation**Task Group:** M. Wakdinson (PM) B. Moore, T. Creacy, D. Patten |
|  |
| **Meeting Action**: Mr. Richards requested that Ms. Wadkinson report on this item. Ms. Wadkinson explained that the group is planning on pulling all high temperature hot water boiler requirements into a new supplement. |

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| **Item Number: NB15-2202** | **NBIC Location: Part 1** | **No Attachment** |
| **General Description:** Add checklist for the safe installation of high pressure composite pressure vessels operating in close proximity to the public |
|  |
| **Subgroup:** FRP**Task Group:** R. Smith (PM), M. Washington, R. Austin |
|  |
| **Meeting Action**: Mr. Richards reported that no action was taken. Mr. Rex Smith will take the role of project manager for this item. |

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| **Item Number: NB15-2209** | **NBIC Location: Part 1** | **No Attachment** |
| **General Description:** Develop guidance and requirements for installation of graphite pressure equipment |
|  |
| **Subgroup:** Graphite**Task Group:** A. Stupica (PM)**Meeting Action**: Mr. Richards reported that no progress was made. |

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| **Item Number: NB16-0101** | **NBIC Location: Part 1** | **No Attachment** |
| **General Description:** Result of NB13-1101, address carbon monoxide sensors in equipment rooms |
|  |
| **Subgroup:** Installation**Task Group:** E. Wiggins (PM), G. Halley, S. Konopacki, T. Creacy, T. Millette, G. Tompkin**Meeting Action**: Mr. Richards requested that Mr. Wiggins report on this item. Mr. Wiggins explained that the task group is still working on gathering information on carbon monoxide sensors and accidents. |

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| **Item Number: NB16-0102** | **NBIC Location: Part 1** | **Attachment Pages 66-68**  |
| **General Description:** Result of NB10-1201, address post installation pressure testing |
|  |
| **Subgroup:** Installation**Task Group:** S. Konopacki (PM), E. Wiggins, P. Cole, R. Smith, M. Wadkinson, D. Patten**Meeting Action**: Mr. Richards invited Ms. Wadkinson to report on this item. Ms. Wadkinson presented a proposal to the NBIC Committee. The item was previously approved by SC Installation with a unanimous vote. The proposal had been revised to address previous letter ballot comments on this item from Mr. Webb and Mr. Troutt. Ms. Wadkinson read the text of the proposal. Mr. Cammeresi suggested lowering the pressure test requirement to 90% of the lowest pressure relief device setpoint. The proposal was modified based on Mr. Cammeresi’s suggestion. Mr. Cook also presented a concern about internal inspection of the vessel after installation. The modified item was sent to letter ballot by a unanimous vote of the NBIC Committee. |

* + 1. **Action Items – New Business**

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| **Item Number: NB16-0104** | **NBIC Location: Part 1, 3.8.1.5** | **No Attachment** |
| **General Description:** Address low water fuel cutoff requirements on vapor-system boilers |
|  |
| **Subgroup:** Installation**Task Group:** None assigned**Meeting Action**: Mr. Richards requested that Ms. Wadkinson report on this item. Ms. Wadkinson reported that the item intended to remove the term “vapor-system” to limit confusion. The task group will reach out to ASME Section IV and CSD-1 to also remove the term “vapor-system”. |

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| **Item Number: NB16-0811** | **NBIC Location: Part 1** | **No Attachment** |
| **General Description:** Remove references back to general requirements section in Sections 2, 3, 4, 5, S5 |
|  |
| **Subgroup:** Installation**Task Group:** None assigned**Meeting Action**: Mr. Richards reported that work continues on this item.  |

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| **Item Number: NB16-0903** | **NBIC Location: Part 1, 3.7.5.2** | **Attachment Pages 69-71** |
| **General Description:** Add stop valves to Figure 3.7.5.2-b as required by paragraph 3.7.5.2 |
|  |
| **Subgroup:** Installation**Task Group:** None assigned**Meeting Action**: Mr. Richards requested that Mr. Wiggins report on this item. Mr. Wiggins showed images of updated figures that included stop valves as required by paragraph 3.7.5.2. The item was previously approved by a unanimous vote of SC Installation. Mr. Austin suggested a minor editorial change. The proposal was approved as modified by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB16-0904** | **NBIC Location: Part 1, 1.6** | **Attachment Pages 72-73** |
| **General Description:** Define the term 'heater' used in Part 1, 1.6 |
|  |
| **Subgroup:** Installation**Task Group:** None assigned**Meeting Action**: Mr. Richards requested that Mr. Patten report on this item. Mr. Patten presented a proposal for code change. The proposal was previously approved by a unanimous vote by SC Installation. The proposal was approved by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB16-0905** | **NBIC Location: Part 1, 1.6.3** | **Attachment Page 74** |
| **General Description:** Include other fired appliances in the fuel capacity requirement for an equipment room |
|  |
| **Subgroup:** Installation**Task Group:** None assigned**Meeting Action**: Mr. Richards requested that Mr. Wiggins report on this item. Mr. Wiggins presented a proposal for code change. The proposal was previously approved by a unanimous vote of SC Installation. The proposal was approved by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB16-2801** | **NBIC Location: Part 1, Section 1** | **No Attachment** |
| **General Description:** Result of PR16-0401, 0403, 0407, 0409 - scope creep requiring the use of manufacturer’s recommendations/other industry standards |
|  |
| **Subgroup:** Installation**Task Group:** B. Moore (PM)**Meeting Action**: Mr. Richard requested that Mr. Moore report on this item. Mr. Moore explained that the task group is working to make sure all mandatory requirements are as clear as possible and that the code is not moving outside of its intended scope. |

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| **Item Number: NB16-2802** | **NBIC Location: Part 1, Section 1** | **No Attachment** |
| **General Description:** Result of PR16-0406, 0409, 0416; possible contradiction in requirements for compliance with "environmental requirements" |
|  |
| **Subgroup:** Installation**Task Group:** D. Patten (PM)**Meeting Action**: Mr. Richards requested that Mr. Patten report on this item. Mr. Patten stated that the task group was investigating whether it was appropriate to reference “environmental requirements”. |

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| **Item Number: NB16-2803** | **NBIC Location: Part 1, 2.5.3.2** | **No Attachment** |
| **General Description:** Result of PR16-0410, add requirements that remote emergency shutdown switches should not be retroactively installed |
|  |
| **Subgroup:** Installation**Task Group:** R. Smith (PM)**Meeting Action**: Mr. Richards reported that Mr. Rex Smith had been assigned as the project manager. |

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| **Item Number: NB16-2804** | **NBIC Location: Part 1, 2.7.5 p)** | **No Attachment** |
| **General Description:** Result of PR16-0411, remove mandatory reference of NB-27, Guide for Blowoff Vessels |
|  |
| **Subgroup:** Installation**Task Group:** E. Wiggins (PM)**Meeting Action**: Mr. Richards reported that Mr. Wiggins had been assigned as the project manager. |

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| **Item Number: NB16-2805** | **NBIC Location: Part 1, 3.8.1.5** | **No Attachment** |
| **General Description:** Result of PR16-0412, clarify requirements for vapor system boilers |
|  |
| **Subgroup:** Installation**Task Group:** M. Wadkinson**Meeting Action**: Mr. Richards reported that Ms. Wadkinson had been assigned as the project manager. |

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| **Item Number: NB16-2806** | **NBIC Location: Part 1, S6.1 b)** | **No Attachment** |
| **General Description:** Result of PR16-0415, delete references to building codes because this is beyond the knowledge of an inservice inspector |
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| **Subgroup:** Installation**Task Group:** E. Wiggins (PM)**Meeting Action**: Mr. Richards reported that Mr. Wiggins had been assigned as the project manager. |

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| **Item Number: NB16-2807** | **NBIC Location: Part 1, S6.4** | **No Attachment** |
| **General Description:** Result of PR16-0417, rewrite section to clarify that it is guidance for owners or users, not requirements for inspectors |
|  |
| **Subgroup:** Installation**Task Group:** D. Patten (PM)**Meeting Action**: Mr. Richards reported that Mr. Patten had been assigned as the project manager. |

* 1. **Subcommittee Inspection**

Subcommittee Inspection Chair Mr. Mark Mooney is expected to report on the following:

* + 1. **Interpretations**

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| **Item Number: IN16-0501** | **NBIC Location: Part 2** | **Attachment Page 75** |
| **General Description:** Change of service from Ammonia to LP gas |
|  |
| **Subgroup:** Inspection**Task Group:** None assigned.**Meeting Action:** Mr. Mooney reported that this item was approved by the subcommittee at the July 2016 NBIC meeting. He reported that the NBIC Committee requested the item be sent to letter ballot after the July 2016 meeting, but it was not sent to letter ballot in the intervening period. The item will be letter balloted to the NBIC Committee. |

* + 1. **Action Items – Old Business**

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| **Item Number: NB13-0903** | **NBIC Location: Part 2, S2.14** | **Attachment Page 76** |
| **General Description:** Add safety requirements for use of liquid or gaseous fuels to fire a historical boiler |
|  |
| **Subgroup:** Historical**Task Group:** D. Rupert (PM), T. Dillon, J. Larson, R. Bryce |
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| **Meeting Action:** Mr. Mooney reported that this item will be letter balloted to SG Historical. |

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| **Item Number: NB13-1406** | **NBIC Location: Part 2, S1** | **No Attachment** |
| **General Description:** Add requirements for inspection of superheater units |
|  |
| **Subgroup:** Locomotive**Task Group:** P. Welch (PM), R. Stone |
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| **Meeting Action:** Mr. Mooney reported that SG Locomotive is working on this item, but no proposal was presented to the subcommittee.  |

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| **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 |
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| **Meeting Action:** Mr. Mooney reported that SG Locomotive is working on this item, but no proposal was presented to the subcommittee.  |

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| **Item Number: NB14-0901** | **NBIC Location: Part 2** | **No Attachment** |
| **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 |
|  |
| **Meeting Action:** Mr. Mooney reported that the subgroup is working on this item. A proposal should be ready for the July 2017 meeting. |

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| **Item Number: NB14-1101** | **NBIC Location: Part 2** | **No Attachment** |
| **General Description:** Diaphragm weld inspection. |
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| **Subgroup:** Locomotive**Task Group:** P. Welch (PM), D. Graf, R. Stone |
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| **Meeting Action:** Mr. Mooney reported that no progress was made. |

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| **Item Number: NB14-1801** | **NBIC Location: Part 2** | **No Attachment** |
| **General Description:** Ferrules |
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| **Subgroup:** Locomotive**Task Group:** P. Welch (PM), R. Stone |
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| **Meeting Action:** Mr. Mooney reported that SG Locomotive is working on this item, but no proposal was presented to the subcommittee.  |

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| **Item Number: NB14-1802** | **NBIC Location: Part 2** | **No Attachment** |
| **General Description:** Riveted staybolt head dimensions and Figure S1.2.2-c |
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| **Subgroup:** Inspection**Task Group:** P. Welch (PM), R. Stone |
|  |
| **Meeting Action:** Mr. Mooney reported that SG Locomotive is working on this item, but no proposal was presented to the subcommittee.  |

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| **Item Number: NB15-2204** | **NBIC Location: Part 2, S3** | **No Attachment** |
| **General Description:** Describe post construction inspection methods specific to graphite pressure equipment |
|  |
| **Subgroup:** Graphite**Task Group:** T. Rudy (PM) **Meeting Action:** Mr. Mooney reported that SG Graphite closed this item with no action. Mr. Besserman reported that SG Graphite was content with the current inspection requirements in the graphite supplement in NBIC Part 2. Mr, Mooney requested that the item be closed based on the subgroup action. The item was closed with no action by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB16-1001** | **NBIC Location: Part 2, CO2 Supp.** | **No Attachment** |
| **General Description:** Edit CO2 supplement based on AIA proposed revision |
|  |
| **Subgroup:** Inspection**Task Group:** None assigned.**Meeting Action:** Mr. Mooney reported that a task group was assigned. A document has been prepared and distributed to CO2 vessel manufacturers for comment. |

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| **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)**Meeting Action:** Mr. Mooney reported that no action was taken. |

* + 1. **Action Items – New Business**

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| **Item Number: NB16-0502** | **NBIC Location: Part 2** | **No Attachment** |
| **General Description:**  |
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| **Subgroup:** Historical**Task Group:** N. Newhouse (PM)\**Meeting Action:** Mr. Mooney reported that SG Historical will have something ready for the SC Inspection in July 2017. |

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| **Item Number: NB16-2808** | **NBIC Location: Part 2, 2.3.6** | **No Attachment** |
| **General Description:** Result of public review comments submitted after deadline, review use of mandatory code language in 2.3.6 |
|  |
| **Subgroup:** Inspection**Task Group:** None assigned**Meeting Action:** Mr. Mooney reported that this item was split into two new items, NB17-0201 and NB17-0202. Because the content of NB16-2808 was addressed under new items, Mr. Mooney requested that this item be closed. The item was previously closed by a unanimous vote of SC Inspection. The item was closed by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB16-2809** | **NBIC Location: Part 2, S12** | **Attachment Pages 77-80** |
| **General Description:** Result of public review comments submitted after deadline, review use of mandatory code language in S12 |
|  |
| **Subgroup:** Inspection**Task Group:** M. Mooney, A. Renaldo, P. Welch **Meeting Action:** Mr. Mooney presented a proposal for code change. The change was previously approved by SC Inspection with a unanimous vote. Mr. Mooney explained the rationale for the change. Mr. Newton disagreed with the change removing the consideration of seismic requirements. Mr. Newton thought this was valuable guidance for owners. The item was sent to letter ballot by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB17-0201** | **NBIC Location: Part 2, 2.3.6** | **Attachment Page 81** |
| **General Description:** Result of public review comments submitted after deadline, review use of mandatory code language in 2.3.6 |
|  |
| **Subgroup:** Inspection**Task Group:** M. Mooney (PM), D. Buechel, D. Graf **Meeting Action:** Mr. Mooney presented a proposal for code change. This item originated from NB16-2808. The item was previously approved by a unanimous vote of SC Inspection. Mr. Mooney read the proposal. The proposal intended to clarify the paragraph by using mandatory code language. The item was approved by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB17-0202** | **NBIC Location: Part 2, 2.3.6** | **Attachment Pages 82-84** |
| **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**Meeting Action:** Mr. Mooney presented a proposal for code change. This item originated from NB16-2808. The item was previously approved by a unanimous vote of SC Inspection. Mr. Mooney read the proposal, and suggested it be sent to letter ballot. Mr. Galanes expressed concern about the term “National Board authorized service provider”, which hasn’t been defined before. The item was sent to letter ballot by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB17-0203** | **NBIC Location: Part 2, S12.5** | **No Attachment** |
| **General Description:** Clarification on calibration of gas detectors |
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| **Subgroup:** Inspection**Task Group:** D. Buechel (PM), D. Graf, B. Hart**Meeting Action:** Mr. Mooney reported that a task group was assigned. |

1. **Committee Structure**

Mr. Cook asked Mr. Cammeresi if SC PRD required a subgroup that would meet on Tuesday of NBIC week. Mr. Cammeresi said that SC PRD voted unanimously to support the creation of Subgroup PRD. The NBIC Committee voted to create a SG PRD with a unanimous vote.

1. **Liaison Activities**
	1. **American Society of Mechanical Engineers BPV Code (ASME BPV)**

Mr. Paul Edwards presented an ASME liaison report. He explained that ASME BPV committees are working to adopt CA-1 for conformity assessment requirements. Many code sections will include this reference for their 2017 editions. A field site task group is working on a generic definition for “field site” and “intermediate location”. Mr. Edwards also mentioned the Parts Fabrication Certificate Program (PRT). He stated that “PRT” 5 certificates have been issued and 9 are pending. He also spoke about a proposal for interim audits for AIAs between their triennial audits. Additionally, the QAI task group is working to develop uniform requirements for AI and ANIs. Mr. Edwards also spoke about ANDE. ASME is partnering with a community college to provide the testing required for ANDE. ASME Section XIII, “Rules for Overpressure Protection” development is in progress. (Attachment Pages 85-91)

* 1. **American Welding Society (AWS)**

Mr. Sekely was not present to give the AWS liaison report, but he provided a document for the committee to review. Mr. Cook read the document for the committee. It was emphasized that SWPSs are currently being updated, but old SWPSs will continue to be accepted in the future. (Attachment Page 91)

* 1. **American Petroleum Institute (API)**

Mr. Jim Riley presented an API liaison report. The 4th edition of API RP 572 has been published, which is a good resource for inspectors performing oil and gas pressure vessel inspections. Additionally the 3rd edition of API RP 581 has been publishing regarding risk based inspection. (Attachment Page 93)

1. **Future Meetings**

Mr. Cook announced that the next NBIC meeting will be July 17-20 in Columbus, OH at the National Board Headquarters. Mr. Cook then listed off a list of options for the location of the January 8-11 NBIC meeting. The options were San Antonio, Austin, New Orleans, and Tampa/Clearwater. The committee took a vote to determine their preference for the next meeting. The tally of the vote was as follows:

* Austin: 2
* San Antonio: 4
* New Orleans: 9
* Tampa/Clearwater: 8

Any decision on future meetings is dependent on hotel availability and subject to change at the discretion of the National Board.

1. **Adjournment**

Prior to adjournment, Mr. Cook told the committee that Mr. Buddy Dobbins, a former committee member, is healthy again after recent health issues. Chair Mr. Don Cook adjourned the meeting at 2:53pm local time.

Respectfully submitted,



Brad Besserman

NBIC Secretary