

# Date Distributed: August 7th, 2017

**NATIONAL BOARD**

**INSPECTION CODE**

**COMMITTEE**

 MINUTES

Meeting of July 20th, 2017

Columbus, Ohio

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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 at 8:00am local time by Chair Mr. Don Cook.

1. **Introduction of Members and Visitors (Attachment Pages 2-6)**

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

Mr. Isaac Osborn was announced as the alternate for Mr. Craig Hopkins for this meeting. Mr. Ben Schaefer was announced as the alternate for Mr. Mike Webb for this meeting.

1. **Announcements**

Mr. Cook thanked National Board Executive Director Mr. Dave Douin for hosting the meeting and the Wednesday night reception. Mr. Douin thanked committee members for their contribution to the code and highlighted the teamwork on the committees. Mr. Douin presented a 10-year service award to Mr. Jim Pillow.

Mr. Cook requested that everyone use the microphones when speaking during the meeting. He also announced that all committee members will receive a complimentary copy of the NBIC. Mr. Cook recognized Mr. Tim Barker and his son Mr. Gary Barker, who received the National Board Scholarship this past year.

Mr. Cook also announced that the National Board is updating their computer system related to the NBIC. In the future, this will include a new letter balloting system and online action item request system. Currently, the only change is a modification to the action item numbering system.

Mr. Cook reminded the committee that the last meeting for passing items to be included in the 2019 edition will be the July 2018 meeting. Additionally, he announced that several chairs and vice chairs will be reaching their term limits at the July 2018 meeting. A listing of these chair positions will be included in the agenda for the January 2018 meeting. To qualify for a the position of chair or vice chair, a candidate must have at least two years of experience on the committee in question.

1. **Adoption of the Agenda**

Mr. Cook asked the committee if there were any additions or modifications to the agenda. Mr. Mooney requested that items NB17-0603 and 17-153 be added to the agenda. He also added membership applications for Mr. Jason Safarz and Mr. James Roberts to SC Inspection. Mr. Galanes requested that items 17-150, 17-151, 17-152, 17-154, NB17-0201, NB17-0702, and 17-158 be added to the agenda. He also added a membership application for Mr. Rick Sturm to SC Repairs and Alterations. Mr. Galanes also stated that Mr. Brian Boseo was elected SG Repairs and Alterations Chair and Mr. Ben Schaefer was elected SG Repairs and Alterations Vice Chair.Mr. Cammeresi stated that no items needed be added from SC PRD. Mr. Cammeresi announced that Mr. Kim Beise was elected Chair of SC PRD and Mr. Daniel Marek was elected Vice Chair of SG PRD. Mr. Richards stated that no items needed to be added from SC Installation. The agenda was adopted as modified by a unanimous vote of the NBIC Committee.

1. **Approval of the Minutes of January 12th, 2017 Meeting**

The minutes of the January 12th, 2017 meeting were published on the National Board website, [www.nationalboard.org](http://www.nationalboard.org) after the January meeting. Mr. Cook asked if there were any additions or modifications to the minutes. There were no additions or modifications to the minutes. The minutes were adopted as published by a unanimous vote of the NBIC Committee.

1. **Review of Rosters**
	1. **Membership Nominations**

Mr. Joseph Brockman was nominated for membership to SC Installation. He was approved for membership to SC Installation by a unanimous vote of the NBIC Committee, pending acceptance by the Chairman of the Board of Trustees.

Mr. Donnie LeSage, Mr. Jason Safarz, and Mr. James Roberts were nominated for membership to SC Installation. They were approved for membership to SC Inspection by a unanimous vote of the NBIC Committee, pending acceptance by the Chairman of the Board of Trustees.

Mr. Rick Sturm was nominated for membership to SC Repairs and Alterations. He was approved for membership to SC Repairs and Alterations by a unanimous vote of the NBIC Committee, pending acceptance by the Chairman of the Board of Trustees.

* 1. **Membership Reappointments**

Mr. Jim Riley and Mr. Jim Sekely were eligible for reappointment to the NBIC Committee. Mr. Riley and Mr. Sekely were approved for reappointment to the NBIC Committee by a unanimous vote of the NBIC Committee, pending acceptance by the Chairman of the Board of Trustees.

Mr. Rob Troutt was eligible for reappointment to SC Repairs and Alterations. Mr. Rob Troutt was approved for reappointment to SC Repairs and Alterations by a unanimous vote of the NBIC Committee, pending acceptance by the Chairman of the Board of Trustees.

Mr. Raymond McCaffrey was eligible for reappointment to SC PRD. Mr. Raymond McCaffrey was approved for reappointment to SC PRD by a unanimous vote of the NBIC Committee, pending acceptance by the Chairman of the Board of Trustees.

1. **Report of Subcommittees**
	1. **Subcommittee Inspection**
		1. **Interpretations**

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| **Item Number: IN16-0501** | **NBIC Location: Part 2** | **No Attachment** |
| **General Description:** Change of service from Ammonia to LP gas |
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| **Subgroup:** Inspection**Task Group:** None assigned.**Meeting Action:** Mr. Mooney that the item failed a recent letter ballot with eleven disapproval votes. The committee will contact the inquirer before continuing to work on the item. |

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

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| **Item Number: NB13-0903** | **NBIC Location: Part 2, S2.14** | **Attachment Page 7** |
| **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 a proposal had been developed and approved by a unanimous vote of SC Inspection. Mr. Mooney requested that the item be sent to NBIC Committee letter ballot. The item was sent to NBIC Committee letter ballot by a unanimous vote of the NBIC Committee.  |

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| **Item Number: NB13-1406** | **NBIC Location: Part 2, S1** | **No Attachment** |
| **General Description:** Add requirements for repair of superheater units |
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| **Subgroup:** Locomotive**Task Group:** P. Welch (PM), R. Stone |
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| **Meeting Action:**  Mr. Mooney reported that the subcommittee reviewed the item, but deemed it better to be transferred for further work to the Repairs and Alterations committees. The item was transferred to Repairs and Alterations by a unanimous vote of the NBIC Committee. |

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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 |
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| **Subgroup:** Locomotive**Task Group:** P. Welch (PM), M. Mooney, R. Stone |
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| **Meeting Action:**  Mr. Mooney reported that work continues on this item.  |

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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 |
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| **Meeting Action:**  Mr. Mooney reported that a draft proposal of this item is being letter balloted to SG Inspection. |

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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 a draft proposal is being prepared for this item. |

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| **Item Number: NB14-1801** | **NBIC Location: Part 3** | **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 requested that this item be transferred to SC Repairs and Alterations. Mr. Welch explained that the proposal exclusively references Part 3. He stated that the item is regarding installing ferrules on vessels where vessels were previously not installed, which is an alteration of the vessel. The item was transferred to SC Repairs and Alterations by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB14-1802** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** Riveted staybolt head dimensions and Figure S1.2.2-c |
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| **Subgroup:** Locomotive**Task Group:** P. Welch (PM), R. Stone |
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| **Meeting Action:**  Mr. Mooney requested that this item be transferred to SC Repairs and Alterations. The item was transferred to SC Repairs and Alterations by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB16-0502** | **NBIC Location: Part 2** | **No Attachment** |
| **General Description:** Gage glass and water level over historical boiler crown sheets |
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| **Subgroup:** Historical**Task Group:** None Assigned.**Meeting Action:**  Mr. Mooney reported that a task group has been assigned and is working on developing a proposal. |

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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 |
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| **Subgroup:** Inspection**Task Group:** None assigned.**Meeting Action:**  Mr. Mooney reported that a task group is addressing previous public comments. |

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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 |
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| **Subgroup:** FRP**Task Group:** N. Newhouse (PM)**Meeting Action:**  Mr. Mooney stated that no progress has been made on this item. |

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| **Item Number: NB17-0202** | **NBIC Location: Part 2, 2.3.6** | **Attachment Pages 8-11** |
| **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 reported that a proposal had been developed, and approved by a unanimous vote of SC Inspection. The item was sent to NBIC Committee 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 no action had been taken. |

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

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| **Item Number: NB17-0603** | **NBIC Location: Part 2, S2.10.2.1** | **Attachment Page 12** |
| **General Description:** Clarify rivet requirements in Part 2, S2.10.2.1 |
|  |
| **Subgroup:** Historical**Task Group:** None Assigned.**Meeting Action:** Mr. Mooney reported that a proposal had been developed and unanimously approved by SC Inspection. Mr. Getter explained the change was to clarify that the rivets referenced in Part 2, S2.10.2.1 don’t have to exactly match the rivets in the diagram. The item was approved by a unanimous vote of the NBIC Committee. |

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| **Item Number: 17-136** | **NBIC Location: Part 2, S2** | **No Attachment** |
| **General Description:** Update tables in Part 2, S2 with correct values |
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| **Subgroup:** Historical**Task Group:** Joel Amato**Meeting Action:** Mr. Mooney reported that this item was approved by SG Historical, but the proposal wasn’t received in its entirety by SC Inspection. A proposal should be ready at the January 2018 meeting. |

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| **Item Number: 17-140** | **NBIC Location: Part 2, 5.2.2** | **No Attachment** |
| **General Description:** Updates to Part 2, 5.2.2 and NB-136 Form |
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| **Subgroup:** Inspection**Task Group:** None Assigned.**Meeting Action:** Mr. Mooney reported that a proposal had been developed and unanimously approed by SC Inspection. Mr. Mooney explained the changes to Part 2, 5.2.2 and the NB-136 Form. Mr. Troutt expressed a concern that the revisions make the form less clear. Mr. Mooney responded that the committee is developing a guide to be included in the code that will clarify the form. Mr. Welch stated that the change will help owners or users seeking to replace nameplates. After discussion, Mr. Mooney withdrew the item for further work at SC Inspection. Mr. Edwards pointed out that the proposal could be updated to reference CA-1 instead of an outdated ASME standard. |

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| **Item Number: 17-144** | **NBIC Location: Part 2** | **Attachment Page 13** |
| **General Description:** Reference EPRI publication on use of fracture mechanics in FFS assessments |
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| **Subgroup:** Inspection**Task Group:** George Galanes**Meeting Action:** Mr. Mooney reported that a proposal had been developed and previously approved by a unanimous vote of SC Inspection. Discussion was held about how this document compares to API and ASME standards for FFS assessments. Mr. Cook requested that the item be sent to the letter ballot so the EPRI reference standard can be reviewed. The item was sent to NBIC Committee letter ballot by a unanimous vote of the NBIC Committee. |

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| **Item Number: 17-148** | **NBIC Location: Part 2, 1.7** | **No Attachment** |
| **General Description:** Vessel initial and installation inspections |
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| **Subgroup:** Inspection**Task Group:** None Assigned.**Meeting Action:** Mr. Mooney requested that this item betransferred to the Installation committees for further work. The item was transferred to Installation with a unanimous vote of the NBIC Committee. |

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| **Item Number: 17-153** | **NBIC Location: Part 2, 2.3.6.4** | **No Attachment** |
| **General Description:** Clarify acceptable conditions for UT thickness readings on air tanks |
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| **Subgroup:** Inspection**Task Group:** None Assigned.**Meeting Action:** Mr. Mooney reported that a task group has been assigned. |

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

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| **Item Number: IN15-1301** | **NBIC Location: Part 3** | **Attachment Page 14** |
| **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 that Mr. Jamie Walker report on this item. Mr. Walker explained that the committee had taken the inquirer’s original question and broke it into a two part response. Mr. Walker read the committee’s proposed questions and replies. SC Repairs and Alterations previously approved this item by a unanimous vote. The interpretation response was approved by a unanimous vote of the NBIC Committee.  |

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| **Item Number: IN16-0401** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** Certificates of Authorization for companies in a merger or acquisition |
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| **Subgroup:** Repairs and Alterations**Task Group:** J. Amato (PM), R. Cauthon, B. Wielgoszinski, G. Scribner**Meeting Action:** Mr. Galanes requested that Mr. Joel Amato report on this item. The TG met by teleconference. It was determined that the NBIC did not contain such detailed requirements as requested by the inquirer. Further, the issues were considered to be administrative rather than technical. The NB staff agreed to work with the inquirer to explain the level of detail needed for an acceptable QC program. Mr. Amato contacted the inquirer, who elected to withdraw this interpretation request. SC Repairs and alterations voted to close this item with a unanimous vote. The NBIC Committee voted to close this item with no action with a unanimous vote. |

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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? |
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| **Subgroup:** Repairs and Alterations**Task Group:** None assigned.**Meeting Action:** Mr. Galanes requested that Mr. Ben Schaefer report on the item. Mr. Schaefer reported that he attempted to contact the inquirer several times, but received no response. Therefore, SC Repairs and Alterations voted to close the item with no action with a unanimous vote. The NBIC Committee voted to close this item with no action with a unanimous vote. |

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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. Ben Schaefer report on the item. Mr. Schaefer contacted the inquirer, who elected to withdraw the item. Therefore, SC Repairs and Alterations voted to close the item with no action with a unanimous vote. The NBIC Committee voted to close this item with no action with a unanimous vote. |

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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 that the committee realized this question could not be interpreted because the code did not address the question. The committee opened new item 17-154 to add this content to the code and no longer needed an answer to the interpretation question. Therefore, SC Repairs and Alterations voted to close the item with no action with a unanimous vote. The NBIC Committee voted to close this item with no action with a unanimous vote. |

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| **Item Number: IN17-0201** | **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:** None Assigned.**Meeting Action:** Mr. Galanes requested that Mr. Troutt report on this item. Mr. Troutt attempted to contact the inquirer, but the inquirer had retired. Therefore, SC Repairs and Alterations voted to close the item with no action with a unanimous vote. The NBIC Committee voted to close this item with no action with a unanimous vote. |

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| **Item Number: 17-135** | **NBIC Location: Part 3, Section 3** | **Attachment Page 15** |
| **General Description:** Must an "R" stamp be applied after the restoration of a corrugating roll? |
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| **Subgroup:** Repairs and Alterations**Task Group:** None Assigned.**Meeting Action:** Mr. Galanes asked Mr. David Martinez to report on this item. Mr. Martinez read the proposed response, and reported that SC Repairs and Alterations approved this interpretation response with a unanimous vote. Mr. Wielgoszinski further explained the rationale for the change. The NBIC Committee voted to approve this interpretation with a unanimous vote. Additionally, new item 17-161 was opened related to repair of corrugating rolls. |

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| **Item Number: 17-141** | **NBIC Location: Part 3, 5.7.2** | **Attachment Page 16** |
| **General Description:** Waive repair nameplate in certain circumstances |
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| **Subgroup:** Repairs and Alterations**Task Group:** None Assigned.**Meeting Action:** Mr. Galanes requested that Mr. Troutt report on this item. SC Repairs and Alterations previously approved this item with a unanimous vote. Mr. Troutt read the inquirer’s original question and the committee’s revised questions. Mr. Schaefer read Part 3, 5.7.2 as rationale for the committee response. Mr. Cook asked whether the inquiry should state “nameplates and stamping” or “nameplates or stamping”. Discussion was held about whether to revise the interpretation based on this suggestion. After discussion, a minor revision was made to the committee interpretation questions. The interpretation response was approved by a unanimous vote of the NBIC Committee. |

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| **Item Number: 17-142** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** Is the installation of a welded flush patch in an ASME Section VIII, Div. 1 pressure vessel seamless head classified as a repair? |
|  |
| **Subgroup:** Repairs and Alterations**Task Group:** None Assigned.**Meeting Action:** Mr. Galanes requested that Mr. Vallance report on this item. Mr. Vallance reported that the item was withdrawn by the inquirer. Therefore, SC Repairs and Alterations voted to close the item with no action with a unanimous vote. The NBIC Committee voted to close this item with no action with a unanimous vote. |

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| **Item Number: 17-143** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** Can an "R" stamp certified shop manufacture and use parts for use on the pressure boundary to complete the repair of a boiler? |
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| **Subgroup:** Locomotive**Task Group:** None Assigned.**Meeting Action:** Mr. Galanes requested that Mr. Linn Moedinger report on the item. Mr. Moedinger reported that SG Locomotive drafted a response to the question. The proposed response will be letter balloted to SG Locomotive. |

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| **Item Number: 17-146** | **NBIC Location: Part 3** | **Attachment Page 17** |
| **General Description:** Welder continuity records during joint review |
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| **Subgroup:** Repairs and Alterations**Task Group:** None Assigned.**Meeting Action:** Mr. Galanes requested that Mr. Pillow report on this item. Mr. Pillow explained the history of the item. Mr. Pillow reported that a proposed response was developed. A new action item was opened to review requirements for welder continuity records. SC Repairs and Alterations previously approved this item with a unanimous vote. The NBIC Committee approved this response with a unanimous vote. |

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| **Item Number: 17-158** | **NBIC Location: Part 3** | **Attachment Pages 18-19** |
| **General Description:** Determine definition of term “practicable” |
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| **Subgroup:** Repairs and Alterations**Task Group:** None Assigned.**Meeting Action:** Mr. Galanes invited Mr. Robert Underwood to report on this item. SC Repair and Alterations previously approved this item with a unanimous vote. Mr. Underwood reported that this interpretation question is similar to a 1998 NBIC interpretation. The draft for the 2017 interpretation response seeks to widen the scope of the original 1998 interpretation. Additionally, an item will be opened to include the terms “practical” and “practicable” in the glossary. Mr. Wielgoszinski suggested a minor change to the subject line of the proposed response. An editorial change was also made to the proposed response. The proposed response was approved by a unanimous vote of the NBIC Committee. |

1. **Action Items – Old Business**

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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 requested that Mr. Linn Moedinger report on this item. Mr. Moedinger reported that no action was taken. |

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| **Item Number: NB13-1405** | **NBIC Location: Part 3, S1.2.9** | **No Attachment** |
| **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 requested that Mr. Linn Moedinger report on this item. Mr. Moedinger reported that SC Repairs and Alterations voted to close this item with no action, and open new item 17-155 regarding a similar topic. The item was closed with a unanimous vote of the NBIC Committee. |

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| **Item Number: NB13-1407** | **NBIC Location: Part 3, S1** | **No Attachment** |
| **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 requested that Mr. Linn Moedinger report on this item. Mr. Moedinger reported that SC Repairs and Alterations voted to close this item with no action, and open new item 17-157 regarding a similar topic. The item was closed with a unanimous vote of the NBIC Committee. |

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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 requested that Mr. Linn Moedinger report on this item. Mr. Moedinger reported that this item will be sent to SC Repairs and Alterations letter ballot. |

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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 |
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| **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 reported that work is 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. |

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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 this item will be letter balloted to SC Repairs and Alterations. |

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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 this item will be letter balloted to SG Repairs and Alterations. |

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| **Item Number: NB16-0503** | **NBIC Location: Part 3, S2.13.13.4** | **No Attachment** |
| **General Description:** Add types of rivet heads |
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| **Subgroup:** Historical**Task Group:** None Assigned.**Meeting Action:** Mr. Galanes requested that Mr. Amato report on this item. SG Historical is continuing to work on this item. |

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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 requested that Mr. Sekely report on this item. Mr. Sekely reported that the SWPS tables were already up to date, and do not require any changes. SC Repairs and Alterations previously voted to close this item with no action. The item was closed with no action with a unanimous vote.  |

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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 |
|  |
| **Subgroup:** Repairs and Alterations**Task Group:** NR Task Group**Meeting Action:** Mr. Galanes requested that Mr. Edwards report on this item. Mr. Edwards reported the NR Task Group is continuing to work 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 subcontracting services such as calibration activities |
|  |
| **Subgroup:** Repairs and Alterations**Task Group:** NR Task Group**Meeting Action:** Mr. Galanes requested that Mr. Edwards report on this item. Mr. Edwards reported the NR Task Group is continuing to work on this item. |

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| **Item Number: NB16-0810** | **NBIC Location: Part 3, 3.4.3 e)** | **No Attachment** |
| **General Description:** Add additional example of alteration relating to burners |
|  |
| **Subgroup:** Repairs and Alterations**Task Group:** G. Scribner**Meeting Action:** Mr. Galanes requested that Mr. Scribner work on this item. Mr. Scribner reported that a proposal should be ready for the next meeting. |

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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 |
|  |
| **Subgroup:** Graphite**Task Group:** None assigned**Meeting Action:** Mr. Galanes reported that this item will be letter balloted to SC Repairs and Alterations. |

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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 |
|  |
| **Subgroup:** Graphite**Task Group:** None assigned**Meeting Action:** Mr. Galanes reported that this item will be letter balloted to SC Repairs and Alterations. |

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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 |
|  |
| **Subgroup:** FRP**Task Group:** M. Gorman (PM)**Meeting Action:** Mr. Galanes reported that no action was taken. |

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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 |
|  |
| **Subgroup:** FRP**Task Group:** N. Sirosh (PM)**Meeting Action:** Mr. Galanes reported that no action was taken. |

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| **Item Number: NB16-1502** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** Develop supplement for repairs and alterations based on international construction standards |
|  |
| **Subgroup:** SG Repairs and Alterations**Task Group:** International Repair Supplement Task Group**Meeting Action:** Mr. Galanes reported that no action has been taken on this item since the last meeting. |

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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 |
|  |
| **Subgroup:** Locomotive**Task Group:** L. Moedinger (PM)**Meeting Action:** Mr. Galanes requested that Mr. Moedinger report on this item. Mr. Moedinger reported that SG Locomotive did not have time to work on this item at their meeting, so no progress was made. |

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| **Item Number: NB16-2001** | **NBIC Location: Part 3, 1.6.1 c)** | **Attachment Pages 20-21** |
| **General Description:** Update language about record maintenance in Table 1.6.1 c) |
|  |
| **Subgroup:** Repairs and Alterations**Task Group:** J. Pillow (PM)**Meeting Action:** Mr. Galanes requested that Mr. Pillow report on this item. Mr. Pillow reported that SC Repairs and Alterations approved this item with two negatives from Mr. Rob Troutt and Ms. Kathy Moore. Mr. Troutt and Ms. Moore explained the rationale for their negative votes. Discussion was held about whether continuity records should be maintained for all welders, or only for welders who are still employed by the Certificate Holder. Discussion was held about the purpose of records retention and how records must be maintained to perform thorough audits. After discussion, the proposal was modified so that records must be maintained even for welders who have left a company. The proposal was approved as modified by a unanimous vote of the NBIC Committee. |

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| **Item Number: NB16-2504** | **NBIC Location: Part 3, S1** | **No Attachment** |
| **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 requested Mr. Moedinger report on this item. Mr. Moedinger reported that the subgroup did not work on this item at their meeting. |

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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:** Repairs and Alterations**Task Group:** R. Underwood**Meeting Action:** Mr. Galanes reported that Mr. Underwood is working on developing a proposal for this item. |

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| **Item Number: NB16-2603** | **NBIC Location: Part 3, Section 4** | **Attachment Pages 22-23** |
| **General Description:** Change the maximum test pressure requirement when performing liquid pressure tests of repair activities. |
|  |
| **Subgroup:** Repairs and Alterations**Task Group:** None assigned**Meeting Action:** Mr. Galanes requested that Mr. Underwood report on this item . This item was previously approved by a unanimous vote of SC Repairs and Alterations. Mr. Underwood explained the rationale for the change, and read the proposed text change to the committee. The change ensures that the pressure tests do not exceed the maximum hydrostatic pressure as specified in the original code of construction. Mr. Cook requested that a new item be opened to ensure Part 2 requirements match this proposal. Mr. Vallance requested an editorial change. The proposal was approved as modified with a unanimous vote of the NBIC Committee. |

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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:** FRP**Task Group:** T. Cowley**Meeting Action:** Mr. Galanes reported that no progress was made. |

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| **Item Number: NB16-2901** | **NBIC Location: Part 3, Sections 1 and 3** | **No Attachment** |
| **General Description:** Result of PR16-0201, add additional requirements related to mechanical repairs |
|  |
| **Subgroup:** Repairs and Alterations**Task Group:** None assigned**Meeting Action:** Mr. Galanes reported that SC Repairs and Alterations voted to close this item with no action taken. Additionally, the Subcommittee wants to send a letter stating that there is no plan to include additional requirements about mechanical repairs to the NBIC. The item was closed with no action with a unanimous vote of the NBIC Committee. |

1. **Action Items – New Business**

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| **Item Number: NB17-0702** | **NBIC Location: Part 3, 1.6.7.2** | **Attachment Page 25** |
| **General Description:** Review references to ASNT ACCP |
|  |
| **Subgroup:** NR Task Group**Task Group:** None Assigned.**Meeting Action:** Mr. Galanes requested that Mr. Edwards report on this item. SC Repairs and Alterations previously approved this item with a unanimous vote. Mr. Edwards reported that this proposal removes a previous conflict in code requirements by making Paragraph 1.6.7.2 n) 2) less specific. This item was approved by the NBIC Committee with a unanimous vote. |

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| **Item Number: 17-114** |  **NBIC Location: Part 3, 2.5.3.6**  | **No Attachment** |
| **General Description:** Controlled fill technique for Grade 91 steel |
|  |
| **Subgroup:** Repairs and Alterations**Task Group:** None Assigned**Meeting Action:** Mr. Galanes reported that the committee plans to send a letter to the original commenter, letting them know the new Supplement 8 addresses their concerns. |

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| **Item Number: 17-134** | **NBIC Location: Part 3, Section 5** | **No Attachment** |
| **General Description:** Proposed Revision for registration of Form R-1 with the National Board containing ASME pressure part data reports attached. |
|  |
| **Subgroup:** Repairs and Alterations**Task Group:** Rob Troutt**Meeting Action:** Mr. Galanes requested that Mr. Paul Shanks report on this item. Mr. Shanks reported that a task group had been formed and work on the item has begun. |

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| **Item Number: 17-137** | **NBIC Location: Part 3, S4.18.2** | **No Attachment** |
| **General Description:** Remove "sand" blasting and replace with "abrasive" in Part 3, S4.18.2 |
|  |
| **Subgroup:** FRP**Task Group:** Terry Cowley**Meeting Action:** Mr. Galanes reported that no action was taken. |

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| **Item Number: 17-138** | **NBIC Location: Part 3, S2** | **Attachment Pages 26-27** |
| **General Description:** Add new paragraph on pressure testing to Part 3, S2 |
|  |
| **Subgroup:** Historical**Task Group:** None Assigned.**Meeting Action:** Mr. Galanes requested that Mr. Underwood report on this item. SC Repairs and Alterations previously approved this item with a unanimous vote. Mr. Underwood reported that there are very limited requirements for pressure testing in Part 3, Supplement 2. Mr. Underwood presented a code change that strengthens the requirements for pressure testing in Supplement 2. This item was approved by the NBIC Committee with a unanimous vote. |

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| **Item Number: 17-139** | **NBIC Location: Part 3, 2.2.3** | **No Attachment** |
| **General Description:** Performance qualification by independent qualifier |
|  |
| **Subgroup:** Repairs and Alterations**Task Group:** Jim Pillow**Meeting Action:** Mr. Galanes requested that Mr. Pillow report on this item. Mr. Pillow reported that this item will be sent to SG Repairs and Alterations and SC Repairs and Alterations for review and comment letter ballot. Mr. Pillow explained that the intent of the proposal is to create new rules to allow for independent qualifiers to qualify welders. Mr. Sekely discussed how this kind of program would be implemented practically. Mr. Troutt expressed concern with the ability to audit compliance to this new program. |

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| **Item Number: 17-145** | **NBIC Location: Part 3, S1.2.2-S1.25** | **No Attachment** |
| **General Description:** Clarify repair vs. alteration for locomotive boilers |
|  |
| **Subgroup:** Locomotive**Task Group:** None Assigned.**Meeting Action:** Mr. Galanes requested that Mr. Moedinger report on this item. Mr. Moedinger reported that no progress was made. |

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| **Item Number: 17-150** | **NBIC Location: Part 3, 3.4.1 d)** | **Attachment Page 28** |
| **General Description:** Document when pressure test is waived |
|  |
| **Subgroup:** SG Repairs and Alterations**Task Group:** None Assigned.**Meeting Action:** Mr. Galanes requested that Mr. Scribner report on this item. SC Repairs and Alterations previously approved this item with a unanimous vote. Mr. Scribner explained that this change helps clarify documentation requirements for pressure tests after rerate. This item was approved by the NBIC Committee with a unanimous vote. |

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| **Item Number: 17-151** | **NBIC Location: Part 3, 2.5.3.6** | **Attachment Page 29** |
| **General Description:** Minor revision to Welding Method 6 to allow for combined SMAW/GTAW |
|  |
| **Subgroup:** SG Repairs and Alterations**Task Group:** None Assigned.**Meeting Action:** Mr. Galanes reported that SC Repairs and Alterations previously approved this item with a unanimous vote. Mr. Galanes explained the rationale for the change. The item was approved by the NBIC Committee with a unanimous vote. |

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| **Item Number: 17-152** | **NBIC Location: Part 3, 2.5.3** | **Attachment Pages 30-32** |
| **General Description:** Revise WM2 and WM6 to allow fill thickness weld repairs to HRSG tube to header welds in steam service |
|  |
| **Subgroup:** **Task Group:** None Assigned.**Meeting Action:** Mr. Galanes reported that SC Repairs and Alterations previously approved this item with a unanimous vote. Mr. Galanes explained the change allows for full thickness temper bead weld repairs on tube to header welds in steam service. This is specifically applicable to HRSGs. Mr. Scribner requested that the item be split into two proposals before ballot. The two items were sent to letter ballot with a unanimous vote of the NBIC Committee. |

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| **Item Number: 17-154** | **NBIC Location: Part 3, 1.6** | **Attachment Page 33** |
| **General Description:** Result of IN17-0101; clarify requirements for AIA audits of nuclear certificate holders |
|  |
| **Subgroup:** SG Repairs and Alterations**Task Group:** None Assigned.**Meeting Action:** Mr. Galanes requested that Mr. Edwards report on this item. SC Repairs and Alterations previously approved this item with a unanimous vote. Mr. Edwards explained that this item clarifies requirements for AIA audits of “NR” Certificate Holders. This item was approved by the NBIC Committee with a unanimous vote. |

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| **Item Number: 17-161** | **NBIC Location: Part 3, 3.3.2** | **No Attachment** |
| **General Description:** Routine repair of corrugating rolls |
|  |
| **Subgroup:** SG Repairs and Alterations**Task Group:** None Assigned.**Meeting Action:** Mr. Galanes reported that no progress had been made on this item. |

1. **Subcommittee Pressure Relief Devices**
2. **Interpretations**

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| **Item Number: IN16-0901** | **NBIC Location: Part 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?**Subgroup:** SG PRD |
|  |
| **Task Group:** None Assigned. |
|  |
| **Meeting Action:** Mr. Cammeresi reported that the new text in the 2017 edition addresses the topic of the inquiry. SC PRD previously closed the item with no action with a unanimous vote. The inquirer is a member of SC PRD and agreed with this decision. The item was closed with no action with a unanimous vote of the NBIC Committee. |

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 |
| **Subgroup:** SG PRD |
| **Task Group:** D. DeMichael (PM), K. Simmons, B. Donalson, B. Dobbins, K. Beise, B. Nutter |
|  |
| **Meeting Action:** Mr. Cammeresi reported that work on the guide continues and a proposal should be ready at the January 2018 meeting.  |

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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 no longer on hold, and work has begun to review the indexes in Parts 1, 2, and 3. |

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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 |
| **Subgroup:** SG PRD |
| **Task Group:** D. DeMichael, B. Dobbins, B. Donalson |
|  |
| **Meeting Action:** Mr. Cammeresi reported that this item is no longer on hold, and work has begun to review the indexes in Parts 1, 2, and 3. |

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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 |
| **Subgroup:** SG PRD |
| **Task Group:** B. Nutter (PM), R. McCaffrey, T. Patel, K. Simmons |
|  |
| **Meeting Action:** Mr. Cammeresi reported that this item is no longer on hold, and work has begun to review the indexes in Parts 1, 2, and 3. |

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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 |
| **Subgroup:** SG PRD |
| **Task Group:** A. Renaldo |
|  |
| **Meeting Action:** Mr. Cammeresi requested that Mr. Adam Renaldo report on this item. Mr. Renaldo has been coordinating with SG Installation to develop this proposal. |

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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.  |
| **Subgroup:** SG PRD |
| **Task Group:** D. Marek (PM), B. Nutter, A. Renaldo |
|  |
| **Meeting Action:** Mr. Cammeresi requested that Mr. Marek report on this item. Mr. Marek outlined the development plan for the proposal. Mr. Newton suggested a new item be opened to address inspection of system with overpressure protection by system design. |

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| **Item Number: NB15-0307** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** Create Guidelines for Repair of Pin Devices.  |
| **Subgroup:** SG PRD |
| **Task Group:** D. McHugh (PM), J. Satterthwaite |
|  |
| **Meeting Action:** Mr. Cammeresi reported that the task group has been in touch with manufacturers of pin devices to receive guidance on repair methods for pin devices. |

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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. |
| **Subgroup:** SG PRD |
| **Task Group:** T. Patel (PM), K. Beise, B. Dobbins, B. Nutter |
|  |
| **Meeting Action:** Mr. Cammeresi reported that the task group has developed a proposal, but it needs additional work before it is ready for ballot. |

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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.  |
| **Subgroup:** SG PRD |
| **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 the task group has reached a consensus on the direction to proceed with this item. The task group should have a proposal ready for the January 2018 meeting. |

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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.  |
| **Subgroup:** SG PRD |
| **Task Group:** D. DeMichael (PM), B. Nutter, A. Renaldo, D. Marek |
|  |
| **Meeting Action:** Mr. Cammeresi reported that the 2017 edition of ASME BPV Code has complicated this item. Additional work is being performed to make sure the proposal matches the changes to the ASME code. |

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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 |
| **Subgroup:** SG PRD |
| **Task Group:** A. Renaldo (PM), J. Satterthwaite, A. Cox |
|  |
| **Meeting Action:** Mr. Cammeresi requested that Mr. Renaldo report on this item. Mr. Renaldo explained that the task group is working to bring all general requirements related to valves into a common section. The task group plans to letter ballot the item to the subgroup prior to the next meeting. |

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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. |
| **Subgroup:** SG PRD |
| **Task Group:** A. Renaldo (PM), B. Nutter, K. Simmons, D. Marek |
|  |
| **Meeting Action:** Mr. Cammeresi requested that Mr. Renaldo report on this item. Mr. Renaldo reported that this item will be letter balloted to SG PRD. |

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| **Item Number: NB16-0401** | **NBIC Location: Part 4** | **No Attachment** |
| **General Description:** Seals matching VR nameplate |
| **Subgroup:** SG PRD |
| **Task Group:** S. Irvin, T. Patel, D. Marek, M. Brodeur, B. Nutter**Meeting Action:** Mr. Cammeresi reported that a new project manager has been assigned. |

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| **Item Number: NB16-0603** | **NBIC Location: Part 3, S7 and S9** | **Attachment Pages 34-36** |
| **General Description:** Add requirements for when the "NR" program is applied to safety related relief valves in nuclear service, came from NR task group |
| **Subgroup:** SG PRD |
| **Task Group:** NR Task Group**Meeting Action:** Mr. Cammeresi requested that Mr. Ball report on this item. SC PRD previously approved this item with a unanimous vote. Mr. Ball reported that the NR Task Group has reviewed this proposal extensively, and refined it over several ballots based on the feedback from multiple negative comments. The item was sent to letter ballot by a unanimous vote of the NBIC Committee. |

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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 |
| **Subgroup:** SG PRD |
| **Task Group:** G. Scribner**Meeting Action:** Mr. Cammeresi requested that Mr. Renaldo report on this item. Mr. Renaldo reported that this item will be sent to SG letter ballot between meetings. |

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| **Item Number: NB16-3101** | **NBIC Location: Part 4** | **Attachment Page 37** |
| **General Description:** Result of PR16-0501, add additional information about T/O program to NBIC |
| **Subgroup:** SG PRD |
| **Task Group:** None assigned**Meeting Action:** Mr. Cammeresi reported that a proposal was developed and SC PRD approved the proposal with a unanimous vote. Mr. Beirne reported that this proposal was developed as a result of a public review comment. The item was approved with 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 |
| **Subgroup:** SG PRD |
| **Task Group:** K. Beise (PM), M. Brodeur, B. Hart**Meeting Action:** Mr. Cammeresi reported that no progress was made. Mr. Cammeresi stated that the item may be balloted to SG PRD between meetings. |

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| **Item Number: NB17-0402** | **NBIC Location: Part 4** | **No Attachment** |
| **General Description:** Review Part 4 index |
| **Subgroup:** SG PRD |
| **Task Group:** S. Irvin (PM), K. Simmons, K. Beise**Meeting Action:** Mr. Cammeresi reported that task group work is ongoing. Mr. Alton Cox has been assigned as the new project manager. |

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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 |
| **Subgroup:** SG PRD |
| **Task Group:** K. Simmons (PM), D. McHugh**Meeting Action:** Mr. Cammeresi reported that work is ongoing to ensure Part 4 requirements match T/O administrative requirements. |

1. **Action Items – New Business**

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| **Item Number: 17-115** | **NBIC Location: Part 4, Section 2** | **No Attachment** |
| **General Description:** Complete rewrite of Section 2 combining common requirements into a general requirements section for all pressure relief devices. |
| **Subgroup:** SG PRD |
| **Task Group:** **Meeting Action:** Mr. Cammeresi reported that Mr. Renaldo was assigned as project manager. The TG will combine Part 4, 2.3.3 an 2.3.4. |

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| **Item Number: 17-116** | **NBIC Location: Part 4, 2.2.1 a)** | **Attachment Page 38**  |
| **General Description:** Add provision allowing power operated valves. Paragraph 2.2.1 b) Delete this paragraph |
| **Subgroup:** SG PRD |
| **Task Group:**  **Meeting Action:** Mr. Cammeresi reported that a proposal was developed and that SC PRD unanimously approved the proposal. Mr. Beirne explained why it was appropriate to include power operated valves and pilot operated valves in Part 4. The item was approved by a unanimous vote of the NBIC Committee. |

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| **Item Number: 17-117** | **NBIC Location: Part 4, 2.2.1 g)** | **No Attachment** |
| **General Description:** clarify what "properly vented" means |
| **Subgroup:** SG PRD |
| **Task Group:**  **Meeting Action:** Mr. Cammeresi reported that a task group was assigned. |

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| **Item Number: 17-118** | **NBIC Location: Part 4, 2.2.4 c)** | **No Attachment** |
| **General Description:** Provide metric equivalent and possibly express conversion as formula instead of paragraph. |
| **Subgroup:** SG PRD |
| **Task Group:**  **Meeting Action:** Mr. Cammeresi reported that a task group was assigned. |

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| **Item Number: 17-119** | **NBIC Location: Part 4, 2.2.5** | **No Attachment** |
| **General Description:** States pressure setting may exceed 10% range. Clarify by how much. |
| **Subgroup:** SG PRD |
| **Task Group:**  **Meeting Action:** Mr. Cammeresi reported that a task group was assigned. |

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| **Item Number: 17-120** | **NBIC Location: Part 4, 2.2.10 d)** | **No Attachment** |
| **General Description:** Add Changeover valve definition in glossary and remove definition from text. |
| **Subgroup:** SG PRD |
| **Task Group:**  **Meeting Action:** Mr. Cammeresi reported that work is progressing on this item |

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| **Item Number: 17-121** | **NBIC Location: Part 4, 2.2.10 e), h)** | **Attachment Pages 39-40** |
| **General Description:** e) Language needs cleaned up. h) delete "so located or piped as to be carried clear from running boards or platforms." |
| **Subgroup:** SG PRD |
| **Task Group:**  **Meeting Action:** Mr. Cammeresi reported that a proposal was developed. SC PRD approved the proposal with one negative. Mr. Beirne read the change to the committee and explained that the proposal clarifies requirements for installation of valves on Y bases. Mr. Beirne also presented the rationale for the negative vote in the Subcommittee from Mr. Alton Cox. Discussion was held about the definition of twin or duplex valves. After discussion, the item was withdrawn by Mr. Cammeresi. The item will be sent to SC Installation for review and comment between meetings. After the SC Installation review and comment ballot, the item will be letter balloted to the NBIC Committee. |

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| **Item Number: 17-122** | **NBIC Location: Part 4, 2.3.6 g)** | **No Attachment** |
| **General Description:** Clean up last sentence of main paragraph. Possibly break into two paragraphs to consider hazards at the discharge and hazards along discharge piping |
| **Subgroup:** SG PRD |
| **Task Group:**  **Meeting Action:** Mr. Cammeresi reported that task group work is ongoing. |

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| **Item Number: 17-123** | **NBIC Location: Part 4, 2.3.6 h)** | **Attachment Page 41** |
| **General Description:** Clarify what is suitable |
| **Subgroup:** SG PRD |
| **Task Group:**  **Meeting Action:** Mr. Cammeresi reported that a proposal was developed and unanimously approved by SC PRD. The item was approved by a unanimous vote of the NBIC Committee. |

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| **Item Number: 17-124** | **NBIC Location: Part 4, 2.4.1.6** | **No Attachment** |
| **General Description:** look at combining with 2.4.3, 2.4.4 |
| **Subgroup:** SG PRD |
| **Task Group:**  **Meeting Action:** Mr. Cammeresi reported that this item should be combined with item 17-115. Therefore, SC PRD voted unanimously to close this item with no action taken. This item was closed with no action taken by a unanimous vote of the NBIC Committee. |

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| **Item Number: 17-125** | **NBIC Location: Part 4, 2.4.2** | **Attachment Page 42** |
| **General Description:** Delete last sentence "The inlet opening shall have an inside diameter equal to or greater than the seat diameter". This is a manufacturing requirement and the inspector has no way of verifying this after installation. |
| **Subgroup:** SG PRD |
| **Task Group:**  **Meeting Action:** Mr. Cammeresi reported that a proposal was developed and approved by a unanimous vote of SC PRD. Ms. Wadkinson stated that there is a similar sentence in ASME Section IV. Mr. Beirne stated that the sentence being removed relates to design, not inspection. Therefore, it would be appropriate for Section IV but not the NBIC. Mr. Scribner suggested this item be sent to letter ballot. After discussion, the item was sent to letter ballot with a unanimous vote of the NBIC Committee. |

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| **Item Number: 17-126** | **NBIC Location: Part 4, 2.4.2** | **No Attachment** |
| **General Description:** Determination of the valve capacity using the maximum output method needs to be described or delete reference. |
| **Subgroup:** SG PRD |
| **Task Group:**  **Meeting Action:** Mr. Cammeresi reported that a task group was assigned. |

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| **Item Number: 17-127** | **NBIC Location: Part 4, 2.4.4.1** | **Attachment Page 43** |
| **General Description:** rewrite to state "Temperature and pressure relief valves shall be installed by either the manufacturer or the equipment installer before a water heater is placed in operation." |
| **Subgroup:** SG PRD |
| **Task Group:**  **Meeting Action:** Mr. Cammeresi reported that a proposal was developed and approved by a unanimous vote of SC PRD. The item was sent to letter ballot with a unanimous vote of the NBIC Committee. |

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| **Item Number: 17-128** | **NBIC Location: Part 4, 2.4.4.3** | **No Attachment** |
| **General Description:** allows Y-base to be used while 2.4.1.6 a) prohibits. This appears to be a conflict. |
| **Subgroup:** SG PRD |
| **Task Group:**  **Meeting Action:** Mr. Cammeresi reported that a task group was assigned. |

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| **Item Number: 17-129** | **NBIC Location: Part 4, 2.5.3 a)** | **No Attachment** |
| **General Description:** should allow installation of PRD in upstream piping to be consistent with Section VIII |
| **Subgroup:** SG PRD |
| **Task Group:**  **Meeting Action:** Mr. Cammeresi reported that SC PRD elected to combine this item with NB15-0315. Therefore, SC PRD voted to close 17-129 with a unanimous vote. This item was closed by the NBIC Committee with a unanimous vote. |

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| **Item Number: 17-130** | **NBIC Location: Part 4,2.5.6 f)** | **Attachment Page 44** |
| **General Description:** This could just point to safe point of discharge since we have a definition |
| **Subgroup:** SG PRD |
| **Task Group:**  **Meeting Action:** Mr. Cammeresi reported that a proposal was developed and unanimously approved by SC PRD. This item was sent to NBIC Committee letter ballot with a unanimous vote of the NBIC Committee. |

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| **Item Number: 17-131** | **NBIC Location: Part 4, 2.5.7 a)** | **No Attachment** |
| **General Description:** Preface by "Unless otherwise protected,..." |
| **Subgroup:** SG PRD |
| **Task Group:**  **Meeting Action:** Mr. Cammeresi reported that Mr. Ball was assigned as the project manager. |

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| **Item Number: 17-132** | **NBIC Location: Part 4, 3.2.6** | **No Attachment** |
| **General Description:** Paragraph 3.2.6 can be put into tabular format. |
| **Subgroup:** SG PRD |
| **Task Group:**  **Meeting Action:** Mr. Cammeresi reported that a task group was assigned. A proposal was developed and will be letter balloted to SG PRD. |

At this point in the meeting, Mr. Venus Newton departed the meeting and was replaced by alternate Mr. Ernest Brantley.

1. **Subcommittee Installation**
2. **Interpretations**

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| **Item Number: IN16-0701** | **NBIC Location: Part 1** | **Attachment Pages 45-47** |
| **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:**  D. Patten**Meeting Action:** Mr. Richards requested that Ms. Wadkinson report on this item. An interpretation response was prepared and previously approved by SC Installation. Ms. Wadkinson read the revised committee question and the proposed response. The response was approved by a unanimous vote of the NBIC Committee. |

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 |
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| **Subgroup:** FRP**Task Group:** M. Richards (PM), S. Konopacki and D. Patten |
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| **Meeting Action:** Mr. Richards stated that this item was approved by SG FRP, and is being reviewed by SC Installation. |

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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, M. Washington |
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| **Meeting Action:** Mr. Richards stated that the task group is seeking input from members of SC Inspection and SC Repairs and Alterations. |

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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 |
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| **Subgroup:** Installation**Task Group:** B. Moore (PM), M. Richards, T. Creacy, M. Washington |
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| **Meeting Action:** Mr. Richards stated that work continues on this item. |

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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 |
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| **Subgroup:** Installation**Task Group:** M. Wadkinson (PM) B. Moore, T. Creacy, D. Patten |
|  |
| **Meeting Action:** Mr. Richards requested that Ms. Wadkinson report on this item. Ms. Wadkinson stated that the group is working to develop a supplement on high temperature hot water boilers. This item will be letter balloted to SG Installation for approval and SC Installation for review and comment. Additionally, the Subcommittee plans to solicit input from Part 4 on this item. Mr. Cook inquired why this item was being developed as a supplement rather than being included in the text of Part 1. Ms. Wadkinson explained that high temperature hot water boilers are a niche variety of boiler, which would be better addressed through a 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 |
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| **Subgroup:** FRP**Task Group:** R. Smith (PM), M. Washington, R. Austin |
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| **Meeting Action:** Mr. Richards stated that this item was approved by SG FRP, and is being reviewed by SC Installation. |

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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 |
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| **Subgroup:** Graphite**Task Group:** A. Stupica (PM)**Meeting Action:** Mr. Richards stated that members of SG Graphite presented on the proposal to the Subcommittee. Work is progressing on this item |

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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, B. Moore, P. Schuelke, R. Smith, M. Washington**Meeting Action:** Mr. Richards requested that Mr. Patten report on the item. A proposal should be ready at the January 2018 meeting. |

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| **Item Number: NB16-0104** | **NBIC Location: Part 1, 3.8.1.5** | **Attachment Page 48** |
| **General Description:** Address low water fuel cutoff requirements on vapor-system boilers |
|  |
| **Subgroup:** Installation**Task Group:** M. Wadkinson (PM), B. Moore, M. Washington**Meeting Action:** Mr. Richards requested that Ms. Wadkinson report on this item. SC Installation previously approved this item with a unanimous vote. Ms. Wadkinson reported that the term “vapor system” has been removed from ASME Code. Therefore, the term “vapor system” should be removed from the NBIC. The item was approved by a unanimous vote of the NBIC Committee. |

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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:** M. Wadkinson(PM), D. Patten**Meeting Action:** Mr. Richards requested that Ms. Wadkinson report on this item. The subcommittee preferred to keep the references within the text of the book. Therefore, Subcommittee voted to close this item with no action taken with a unanimous vote. The item was closed with no action by the NBIC Committee with a unanimous vote. |

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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 |
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| **Subgroup:** Installation**Task Group:** B. Moore (PM), R. Smith**Meeting Action:** Mr. Richards reported that no progress was made. |

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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), S. Konopacki, M. Wadkinson, E. Wiggins**Meeting Action:** Mr. Richards requested that Ms. Wadkinson report on this item. SC Installation previously voted to close this item with no action with one negative vote. The negative vote was subsequently withdrawn. The item was closed with no action with a unanimous vote of the NBIC Committee. |

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| **Item Number: NB16-2803** | **NBIC Location: Part 1, 2.5.3.2** | **Attachment Page 49** |
| **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), B. Moore, P. Schuelke, M. Washington**Meeting Action:** Mr. Richards requested that Mr. Moore report on this item. This item was previously approved with a unanimous vote of SC Installation. Discussion was held about whether to state that remote emergency shutdown switches are “not required” to be retroactively installed or “not recommended” to be retroactively installed. It was decided that “not required” was the appropriate language. The item was approved with a unanimous vote of the NBIC Committee. |

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| **Item Number: NB16-2804** | **NBIC Location: Part 1, 2.7.5 p)** | **Attachment Page 50** |
| **General Description:** Result of PR16-0411, remove mandatory reference of NB-27, Guide for Blowoff Vessels |
|  |
| **Subgroup:** Installation**Task Group:** E. Wiggins (PM), B. Moore, D. Patten, M.Washington**Meeting Action:** Mr. Richards reported that a proposal was developed and unanimously approved by SC Installation. This item was approved by a unanimous vote of the NBIC Committee. |

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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 (PM), B. Moore, M. Washington**Meeting Action:** Mr. Richards requested that Ms. Wadkinson report on this item. SC Installation previously closed this item with no action with a unanimous vote. Ms. Wadkinson stated that the term “vapor system” was removed from the code with previous action NB16-0104. Therefore, the action should be closed. The item was closed with no action with a unanimous vote of the NBIC Committee. |

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| **Item Number: NB16-2806** | **NBIC Location: Part 1, S6.1 b)** | **Attachment Page 51** |
| **General Description:** Result of PR16-0415, delete references to building codes because this is beyond the knowledge of an inservice inspector |
|  |
| **Subgroup:** Installation**Task Group:** E. Wiggins (PM), S. Konopacki**Meeting Action:** Mr. Richards requested that Mr. Patten report on this item. A proposal was drafted and unanimously approved by SC Installation. Mr. Patten read the proposed change and explained the rationale behind the proposal. The item was approved with a unanimous vote of the NBIC Committee. |

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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), M. Washington**Meeting Action:** Mr. Richards requested that Mr. Patten report on this item. This item was previously closed with no action with a unanimous vote of SC Installation. Mr. Patten reported that this item was addressed through the previous change in NB16-2806. The item was closed with no action with a unanimous vote of the NBIC Committee. |

1. **Action Items – New Business**

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| **Item Number: 17-133** | **NBIC Location: Part 1, 3.5.3.2** | **No Attachment** |
| **General Description:** Change "shall be located inside" to "should" in accordance with CSD-1 |
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| **Subgroup:** R. Smith**Task Group:** None Assigned.**Meeting Action:** Mr. Richards reported that Mr. Smith was assigned as the project manager. |

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| **Item Number: 17-147** | **NBIC Location: Part 1, Section 9** | **Attachment Page 52** |
| **General Description:** Define “Hot Water Storage Tank” in glossary |
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| **Subgroup:** SG Installation**Task Group:** R. Austin**Meeting Action:** Mr. Richards requested that Mr. Patten report on this item. A proposal was drafted and unanimously approved by SC Installation. Mr. Patten reported that the term “potable water storage tank” was used interchangeably with “hot water storage tank.” New item 17-159 was created to change all references to “potable water storage tank.” Mr. Scribner pointed out the new definition is similar to another definition already in the NBIC. The NBIC Committee initially voted to approve this item with 3 negatives and 2 abstentions. It was then agreed that due to the controversy over this item that it should go to letter ballot instead. The committee voted to rescind the action, and then voted unanimously to go to letter ballot. |

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| **Item Number: 17-159** | **NBIC Location: Part 1, 4.7** | **No Attachment** |
| **General Description:** Result of 17-147; review Part 1, 4.7 for references to hot water storage tanks |
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| **Subgroup:** SG Installation**Task Group:** None Assigned.**Meeting Action:** The item was opened at this meeting but a proposal has not yet been drafted. |

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

Mr. Edwards gave a PowerPoint presentation on current events at ASME. Work is continuing on the PRT designator. There is currently a major reorganization of the QAI-1 standard under consideration and currently being balloted. Certification 360 Workshops have been conducted in the United States and internationally. Additional Certification 360 Workshops are planned for later in the year. There are initiatives in Section III for the recognition of the “NR” program for repair/replacement activities for Section III vessels.

Mr. Wielgoszinski recognized Mr. Paul Edwards for receiving the ASME Melvin R. Green Medal for his contribution to conformity assessment in the boiler and pressure vessel industry.

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

Mr. Sekely gave a presentation on current events at AWS. AWS is working to transition SWPSs to a stabilized maintenance status, which means the SWPSs do not need to be reaffirmed every five years. Mr. Sekely stated there is an ongoing project at AWS to ensure all SWPSs are up-to-date and in a common format.

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

Mr. Riley briefly reported on current activities at API. He presented a document prepared by EPRI related to FFS evaluations. The EPRI document references API-579 and summarizes the use of FFS for crack like indicators.

* 1. **Department of Transportation (DOT)**

Mr. Staniszewski reported that all DOT rulemaking is currently at a standstill. New DOT rules have not been published. Mr. Staniszewski suggested that NBIC should submit a petition for rulemaking to the DOT to incorporate the 2017 edition.

1. **Future Meetings**
* January 8th-11th, 2018 – New Orleans, Louisiana
* July 16th-19th, 2018 – Columbus, Ohio
1. **Adjournment**

Mr. Cook adjourned the meeting at 3:03pm local time.

Respectfully submitted,



Brad Besserman

NBIC Secretary