

# Date Distributed: December 23rd, 2016

**NATIONAL BOARD**

**SUBCOMMITTEE**

**REPAIRS AND ALTERATIONS**

MINUTES

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Meeting of January 11th, 2017

San Diego, California

The National Board of Boiler & Pressure Vessel Inspectors

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1. **Call to Order**

Chairman George Galanes called the meeting to order at 8:00 a.m.

1. **Introduction of Members and Visitors**

The members and visitors in the meeting room introduced themselves. An attendance sheet, (Attachment Page 2), was passed around for members and visitors to sign and completed their contact information.

14 Members were present.

1. **Announcements**

* The National Board invites all committee members and visitors to a reception at the Quad Ale House on Wednesday, January 11th. The event begins at 5:30pm. The venue is approximately a five minute walk from the hotel.
* The draft of the 2017 edition of the NBIC has been approved by the NBIC Committee, and will be available for purchase on July 1st, 2017.
* Thursday’s breakfast and lunch will be presented by the National Board.
* The Executive Committee is proposing term limits for officers of Sub Groups and Committees. This will be moved to the Board of Trustees for approval and onto ANSI for acceptance.

1. **Adoption of the Agenda**

A motion was made and unanimously approved to adopt the agenda as amended with 3 new business items added.

1. **Approval of the Minutes of July 20th, 2016 Meeting**

A motion was made and unanimously approved the minutes of July 20, 2016 meeting.

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

* Mr. Monte Bost’s name was not moved for a member nomination to the SC Repairs and Alteration. Chairman Galanes explained the size of the committee is acceptable at its current membership level and should membership be reduced due to attrition Mr. Bost’s name would then be placed in nomination.
* A motion was made and unanimously approved to reappoint Mr. Mark Jordan to the SG Historical Boilers.
* A motion was made and unanimously approved to appoint Mr. Chris Cary, Mr. Bob Dickerson, Mr. Bryan Jones, and Mr. Ramkumar Selvaraj to become members of SG Graphite.
  1. **Membership Reappointments**
* A motion was made and unanimously approved for Mr. Brian Morelock to be reappointed as a member of the SC Repairs and Alterations.
* A motion was made and unanimously approved for Mr. Ben Schaefer to be reappointed as a member of the Subgroup Repairs and Alterations.

1. **Interpretations – Old Business**

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| **Item Number: IN15-0601** | **NBIC Location: Part 3, Section 3** | **Attachment Page-4** |
| **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 | | |
| **History:** | | |
| July 2015  Interpretation request submitted by Mr. Nate Manzon of PMC Engineering Solutions. Mr. Galanes, Mr. Edwards, Mr. Morelock, Mr. Pillow, and Mr. Miletti reviewed the request, but did not develop a proposed response.  January 2016  Mr. Galanes reported that no action has been taken.  July 2016  Mr. Pillow presented a proposed committee question and reply. Installation of a flush patch in a pressure retaining item with backing strips is a repair provided the backing strip does not reduce joint efficiency and had increased coverage by NDT when the original code of construction considered backing rings. A motion was made and unanimously approved to move this to the NBIC Main Committee for consideration. The item was not letter balloted in the period between meetings because approval of the 2017 edition took priority.  January 2017  Mr. Galanes reviewed this item with the committee noting the item was passed at the July 2016 meeting and approved to move to the main committee. It will be letter balloted at the Main Committee after this meeting. No action taken on this item. | | |

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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 | | |
| **History:** | | |
| July 2015  Interpretation request submitted by Mr. Michael Goolsby of Austin Industrial.  January 2016  Mr. Galanes reported that no action has been taken.  July 2016  A progress report was given by R. Underwood. Further information will be requested of the inquirer to proceed with interpretation at the Sub Group Repairs and Alterations.  January 2017  M. Toth gave a report that he has tried to contact the inquirer for further information. Recently an email sent to the inquirer’s email address supplied to the National Board came back to Mr. Toth as unavailable. A motion was made and unanimously approved to close this item with a letter sent to the inquirer to let him/them know that the Item has been closed and if further action would be necessary a new item will be opened. | | |

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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:** Jamie Walker (PM), R. Cauthon, R. Underwood, D. Martinez, and R. Troutt | | |
| **History:** | | |
| July 2015  Interpretation request submitted by Mr. Nathan Brink of Phillips 66.  January 2016  This item missed the SC agenda and will be addressed in July 2016.  July 2016  R. Underwood presented his Task Groups attached interpretation research and response for accepting  explosion weld plugging of heat exchanger tubes. A motion was made and unanimously approved to  move this item onto the NBIC Committee for consideration which was linked to another item for code  revision (NB16-2601).  January 2017  Jamie Walker presented the item as a progress report as the Sub Group R/A decided the item needed to be reworked. | | |

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| **Item Number: IN16-0201** | **NBIC Location: Part 3** | **No Attachment** |
| **General Description:** Sequence for Stamping and R Report Signing  **Subgroup:** Repairs and Alterations  **Task Group:** M. Bost (PM), B. Schaefer, R. Miletti, B. Schulte  **History:**  July 2016  M. Bost presented the Task Groups interpretation response. At the Sub Group Repairs and Alterations a  rousing debate took place. A vote was taken at the Sub Group Repairs and Alterations where the item  failed with 17 negative votes, 2 abstentions and one approval. The Task Group requested this item  remain open while a new action item **NB16-0301** was assigned, PM Ben Schaefer, to consider  addressing Stamping and R report signing sequencing as part of the NBIC. | | |
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| January 2017  B. Schaefer requested this item be closed with no further action as it goes along with NB16-0301 which was also closed. A motion was made and unanimously approved to close this item with no further action. | | |

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| **Item Number: IN16-0401** | **NBIC Location: Part 3** | **Attachment Pages 5&6** |
| **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  July 2016  A progress report was given for the interpretation to address interpretations response wording.  January 2017  J. Amato presented the Committees questions and responses. A motion was made and unanimously approved to move this to the Main Committee for consideration.  It was also requested a new action item # NB17-0302 be opened so the information addressed in the interpretation can be placed into NBIC Part 3. The Task Group: J. Amato (PM) B. Schafer, B. Boseo, R. Miletti, R. Sturm, & B. Wielgoszinski. | | |

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| **Item Number: IN16-0801** | **NBIC Location: Part 3** | **Attachment Page 7** |
| **General Description:** Result of NB16-0810; heat recovery steam generator alterations | | |
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| **Subgroup:** Repairs and Alterations  **Task Group:** R. Troutt(PM), Randy Cauthon, Mike Webb  January 2017  R. Troutt presented the Sub Groups R/A approved question and response that is also associated NB16-0810. A motion was made and unanimously approved to move to the Main Committee for consideration. | | |

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| **Item Number: IN16-1001** | **NBIC Location: Part 3** | **Attachment Page 8** |
| **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:** Craig Hopkins(PM)  January 2017  C. Hopkins presented the Sub Group R/A approved questions and responses. A motion was made and unanimously approved to move this item to the Main Committee for consideration. | | |

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| **Item Number: IN16-1101** | **NBIC Location: Part 3** | **Attachment Pages 9-11** |
| **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:** Brain Morelock(PM)  January 2017  B. Morelock presented the approved Sub Group R/A question and response related to a multi chambered vessel with one chamber being altered. A motion was made and unanimously approved to move this onto the Main Committee for consideration. | | |

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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:** Nathan Carter(PM), R. Underwood, J. Walker, & D. Martinez  January 2017  N. Carter presented the item and after much discussion it was determined to have this as a progress report and get further information from the inquirer related to the inquiry. | | |

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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. | | |
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| **Subgroup:** Repairs and Alterations  **Task Group:** David Martinez(PM) Nathan Carter  January 2017  N. Carter presented the items questions and responses. He mentioned there are 3 interpretations, 98-33, 04-23 & 13-09 that are related to this item. After discussion this was determined to be a progress report. | | |

1. **Interpretations – New Business**

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| **Item Number: IN17-0101** | **NBIC Location: Part 3, 1.8.7.2** | **No Attachment** |
| **General Description:** Certificate Holders Audit Responsibility | | |
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| **Subgroup:** SG Repairs and Alterations  **Task Group:** NRTG  January 2017  P. Edwards presented a progress report for this item that the NRTG is working on. | | |

1. **Action Items – Old Business**

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| **Item Number: NB12-0801** | **NBIC Location: Part 3** | **Attachment Pages 12-15** |
| **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. Wielgoszinski, N. Carter | | |
| **History:**  January 2012  This item was transferred from R/A General. A task group of E. Ortman (PM), G. Galanes and B. Wielgoszinski was assigned.  July 2012  A progress report was provided by Mr. Cauthon  January 2013  A progress report on this Action Item was given by B. Wielgoszinski and E. Ortman. During discussions it was suggested by R. Wielgoszinski that it may only be necessary to list actions that are considered repairs and actions considered alterations. The Task Group will continue to gather information for the next meeting.  July 2013  A progress report along with 3 documents for review was presented by Mr. Ed Ortman.  January 2014  Mr. Ortman is coordinating the NBIC updates with the ASME code future requirements. Once established a letter ballet will be sent out. Mr. Galanes and Mr. Pillow will be copied on correspondence should questions come up.  July 2014  Mr. Cauthon gave a progress report; Section VIII Div.1 has a revision in progress to address PHEs. We are waiting resolution of that action before finalizing the NBIC proposal.  January 2015  Mr. Cauthon gave a progress report. Progress is being made in ASME BPV Section VIII Division 1 on a PHE appendix, which the task group is keeping tabs on. | | |
| July 2015  Mr. Galanes invited Mr. Randy Cauthon to give a report on the status of this item. Mr. Cauthon explained this item is being developed in accordance with ASME Section VIII, and there will be coordination with the ASME committees as this item is worked on.  January 2016  Mr. Galanes reported that work is ongoing, pending more development from ASME Section VIII.  July 2016  R. Cauthon presented proposed revisions to NBIC in paragraphs 3.3. This sub-committee had two Plate  Heat Exchanger PHE manufacturers provide a presentation to SC members concerning PHE design,  fabrication and examples of repairs. These representatives were Stacey Flynn from Alfa Laval and Pete  Matkovics from SPX Flow. A motion was made and unanimously approved to review the proposed  revisions for PHE with a subcommittee letter ballot. This item failed the SC R/A ballot. Rationale for the negative votes is attached.  January 2017  N. Carter presented the revisions to the item from the last letter ballot responses and adjustments from the negative vote comments. A motion was made and unanimously approved for the item to move it to the Main Committee for consideration. | | |

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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) | | |
| **History:**  July 2014  A progress report given by Mr. Reetz. This item had not yet been considered by the SG locomotive boilers.  January 2015  Mr. Galanes gave a progress report. There was no action to report**.**  March 2015  This item unanimously passed SG Locomotive Boilers. | | |
| July 2015  This item was sent to letter ballot at the July 2015 meeting. This item failed a letter ballot to SC Repairs and Alterations due to five disapprovals (see attachment).  January 2016  Mr. Galanes reported that the subcommittee is awaiting comments from Mr. Stone.  July 2016  Mr. Moedinger gave a progress report indicating the Sub Group Locomotive has more work to be done  on this item.  January 2017  This Item was presented as a progress report. | | |

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| **Item Number: NB13-1405** | **NBIC Location: Part 3, S1.2.9** | **Attachment Page 16** |
| **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) | | |
| **History:**  July 2014  Progress report given by Mr. Reetz. This item had not yet been considered by the SG locomotive boilers.  March 2015  This item was not worked on at the SG Locomotive Boilers meeting | | |
| July 2015  Mr. Galanes gave a progress report. No action was taken.  January 2016  Mr. Galanes reported that there was no progress made.  July 2016  Mr. Moedinger gave a progress report indicating the subgroup Locomotive has more work to be done on  this item.  January 2017  This Item will be sent out to the Sub Group Locomotive for a letter ballet. | | |

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| **Item Number: NB13-1407** | **NBIC Location: Part 3, S1** | **Attachment Page 17** |
| **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) | | |
| **History:**  July 2014  A progress report given by Mr. Reetz. This item had passed SG locomotive boilers but did not make the SC R&A agenda.  January 2015  Mr. Galanes gave a progress report. There was no action to report.  March 2015  This item unanimously passed SG Locomotive Boilers. | | |
| July 2015  Mr. Galanes gave a progress report. A proposal was prepared by SG Locomotive Boilers. SC Repairs and Alterations sent this item to letter ballot at the July 2015 meeting. This item failed the letter ballot due to disapprovals.  January 2016  Mr. Galanes reported that there was no progress made.  July 2016  Mr. Moedinger gave a progress report indicating has more work to be done to address the negatives  from the last subcommittee letter ballot.  January 2017  This Item will be sent out to the Sub Group Locomotive for a letter ballet. | | |

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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) | | |
| **History:**  July 2014  A progress report given by Mr. Reetz. This item had passed SG locomotive boilers but did not make the SC R&A agenda.  January 2015  Mr. Galanes gave a progress report. There was no action to report.  March 2015  This item unanimously passed SG Locomotive Boilers. | | |
| July 2015  Mr. Galanes gave a progress report. This item was sent back to SG Locomotive Boilers for further work.  January 2016  Mr. Galanes reported that there was no progress made.  July 2016  Mr. Moedinger gave a progress report indicating the subgroup Locomotive has more work to be done on  this item.  January 2017  This Item was presented as a progress report. | | |

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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 | | |
| **History:** | | |
| July 2015  Mr. Galanes stated there is nothing to report on this item.  January 2016  Mr. Galanes reported that the subcommittee is waiting for information from SG Historical Boilers.  July 2016  This item was presented as a progress report as Historical is waiting for information from subgroup  Locomotive on acceptable bolting material.  January 2017  J. Amato presented this item as a progress report. | | |

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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)  **History:**  January 2016  Mr. Galanes reported that more information is needed from SG Graphite.  July 2016  Ed Soltow explained this item was still in need of further work by the subcommittee Graphite and this is  a progress report.  January 2017  Presented item as a progress report. | | |

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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)  **History:**  January 2016  Mr. Galanes reported that more information is needed from SG Graphite.  July 2016  Ed Soltow presented the attached document wording to add the Supplement 3. Para S3.5.5 m). This  would allow any company with an “R” Certificate of Authorization, not just one with a “G” designator  on the Certificate, to complete graphite tube plugging using a tube plugging kit. After discussion  Subgroup Graphite agreed to provide further detail or a demonstration of the mentioned kit plugging  process for the next NBIC meeting. Progress Report. This item failed the SC R/A ballot. Rationale for the negative votes is attached.  January 2017  Presented item as a progress report. | | |

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| **Item Number: NB16-0810** | **NBIC Location: Part 3, 3.4.3 j)** | **Attachment Page 18** |
| **General Description:** Add additional example of alteration relating to burners | | |
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| **Subgroup:** Repairs and Alterations  **Task Group:** R. Troutt(PM), G. Scribner, M. Webb  July 2016  A progress report was given by R. Trout.  January 2017  R. Troutt presented the new alteration item sub paragraph j in paragraph 3.4.3. A motion was made and unanimously approved to move this onto the Main Committee for consideration. | | |

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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)  July 2016  No report was available for review by the Sub Committee.  January 2017  Presented this item as a progress report. | | |

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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)  July 2016  No report was available for review by the Sub Committee.  January 2017  Presented this item as a progress report. | | |

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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)  July 2016  L. Moedinger told the committee there is ongoing work on this item and this report is to be considered a  progress report.  January 2017  L. Moedinger presented this item as a progress report. | | |

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| **Item Number: NB16-2001** | **NBIC Location: Part 3, 1.6.1 c)** | **Attachment Pages 19 & 20** |
| **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)  July 2016  J. Pillow provided a progress report for this item that the task group hopes to have addressed at the  January 2017 meeting.  January 2017  Secretary Bill Vallance took over the meeting from Chairman Galanes. Mr. Galanes presented the addition of wording; *Continuity records for those employed by the Certificate Holder need not be retained for more than 5 years,* to Table 1.6.1 c “Minimum Retention Period”. A motion was made and unanimously approved to move this item to the Main Committee for consideration. Chairmanship was returned to Chairman Galanes. | | |

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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 | | |
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| **Subgroup:** Locomotive  **Task Group:** L. Moedinger (PM)  July 2016  Linn Moedinger gave a progress report discussing this new business item where SG Locomotive is  considering adding volumetric examination in supplement paragraphs instead of just radiograph  examination.  January 2017  L. Moedinger indicated the Sub Group Locomotive closed this item with no further action. They are of the understanding that the term radiographic in Part 3 will be universally changed to volumetric by NB Staff. A motion was made and unanimously approved to close this item with no further action. | | |

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| **Item Number: NB16-2504** | **NBIC Location: Part 3, S1** | **Attachment Pages 21 & 22** |
| **General Description:** Evaluate adding SA-234 to the piping reference table S1.1.3.1 | | |
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| **Subgroup:** Locomotive  **Task Group:** D. Griner, M. Janssen  July 2016  L. Moedinger gave a progress report for this new business item where Sub Group Locomotive is  evaluating adding a new material specification to Supplement 1.  January 2017  This Item will be sent out to the Sub Group Locomotive for a letter ballet. | | |

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), Ben Schaefer  January 2017  Ben Schaefer presented the Sub Group R/A closed with no further action as it was in association with IN16-0201 that was also closed. A motion was made and unanimously approved to close this item with no further action. | | |

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| **Item Number: NB16-0302** | **NBIC Location: Part 3** | **Attachment Page-23** |
| **General Description:** Encapsulation over cracks | | |
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| **Subgroup:** SG Repairs and Alterations  **Task Group:** George Galanes (PM)  January 2017  Secretary Bill Vallance took over the meeting from Chairman Galanes. Mr. Galanes presented the attachment recommending to the Sub Committee to not allow encapsulation over cracks. There was a unanimous vote to approve at the Sub Group R/A to close this item with no further action. A motion was made and unanimously approved to close this item with no further action. Chairmanship was returned to Chairman Galanes. | | |

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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:** Brain Boseo (PM)  January 2017  This item was presented as a progress report. | | |

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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(PM)  January 2017  This item was a progress report. | | |

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| **Item Number: NB16-0603** | **NBIC Location: Part 3, Supplement 9** | **No Attachment** |
| **General Description: Move from Part 3 to Part 4**  **Subgroup**: Repairs and Alterations, NR TG  **Task Group:** NRTGP Edwards (PM), Ben Schafer  July 2016 | | |
| P. Edwards presented revisions to supplement 9 primarily related to PRD’s not certified by the NB per  the attached document. A motion was made and unanimously approved to have a letter ballet go out to  the subcommittee Repairs and Alterations and the subcommittee PRD. | | |
| January 2017  P. Edwards presented this new item for information only as supplement 9 is currently in NBIC Part 3. This is also a PRD Action Item. | | |

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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  January 2017  Paul Edwards presented a progress report. C. Smith of the Task Group is looking at this item to evaluate the paragraphs in Part 3 to NQA-1 in association to ASME Section 11. | | |

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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  January 2017  P. Edwards gave a progress report related to calibration activities and the task group needs to align Part 3 paragraphs with NCA-3126. | | |

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| **Item Number: NB16-0610** | **NBIC Location: Part 3, 1.8.2** | **Attachment Page 24** |
| **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  Mr. Paul Edwards presented the attachment adding wording to subparagraphs 1) and 3) for Category 1 and category 3 to clarify these in relation to older type of plants. A motion was made and unanimously approved to move this to the Main Committee for consideration. | | |

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| **Item Number: NB16-1302** | **NBIC Location: Part 3, S3.2** | **Attachment Page** |
| **General Description:** Pressure test requirements rewrite for graphite vessels | | |
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| **Subgroup:** Graphite  **Task Group:** None assigned  **History:**  October 2016  SG Graphite approved a proposal with a unanimous vote.  January 2017  This item was presented as a progress report. | | |

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| **Item Number: NB16-1303** | **NBIC Location: Part 3, S3.5.1 f)** | **Attachment Page** |
| **General Description:** Revise wording mandating examination and evaluation for graphite vessels | | |
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| **Subgroup:** Graphite  **Task Group:** None assigned  October 2016  SG Graphite approved a proposal with a unanimous vote.  January 2017  This item was presented as a progress report | | |

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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 | | |
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| **Subgroup:** SG Repairs and Alterations  **Task Group:** International Repair Supplement Task Group  January 2017  Chairman Galanes presented a progress report in the task group’s objectives and plans to place a new supplement into Part 3 to promote international use of NBIC Part 3 for repairs and alterations. | | |

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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 | | |
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| **Subgroup:** SG Repairs and Alterations  **Task Group:** R. Underwood(PM), R. Miletti, D. Holt,  January 2017  R. Underwood presented a progress report associated with the attachment from the Sub Group R/A. | | |

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| **Item Number: NB16-2603** | **NBIC Location: Part 3, 4.4.1(a)(1)** | **Attachment Page 25** |
| **General Description:** Maximum Liquid Test Pressure | | |
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| **Subgroup:** SG Repairs and Alteration  **Task Group:** R. Underwood (PM)  January 2017  R. Underwood presented the attachment. A motion was made and unanimously approved to move this to the Main Committee for consideration. | | |

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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" | | |
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| **Subgroup:** SG FRP  **Task Group:** T. Cowley  January 2017  This item was presented as a progress report. | | |

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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 | | |
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| **Subgroup:** SG Repairs and Alterations  **Task Group:** M. Toth (PM),Rick Valdez, B. Schafer, Bob Wielgoszinski  January 2017  M. Toth gave a progress report for this item. It was stated there are several interpretations related to this item such as 04-19 & 98-29. | | |

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| **Item Number: NB16-3001** | **NBIC Location: Part 3, 5.6** | **Attachment Page 26** |
| **General Description:** Result of PR16-0701, review form registration log requirements | | |
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| **Subgroup:** SG Repairs and Alterations  **Task Group:** Kathy Moore(PM), M. Webb  January 2017  M. Webb presented the attachment for revision to the R form log paragraph related to R form registration. A motion was made and unanimously approved to move this to the Main Committee for consideration. | | |

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| **Item Number: NB16-3002** | **NBIC Location: Part 3, 3.2.2 e)** | **Attachment Page 27** |
| **General Description:** Result of PR16-0704, clarify that pressure tests of level and duration required by original COC are sometimes permissible after installation | | |
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| **Subgroup:** SG Repairs and Alterations  **Task Group:** Mike Webb(PM)  January 2017  M. Webb presented the attachment and after discussion and possible action to be done in ASME Section I, replacement parts. The Sub Group unanimously voted to close this item with no further action. A motion was made and unanimously approved to close this item with no further action. | | |

1. **Future Meetings**

July 17-20, 2017 – Columbus, Ohio

January 8-11, 2018 – Location TBD

1. **Adjournment**

Respectfully submitted,

William Vallance,

Secretary Subcommittee Repairs and Alterations