

## **2004 NBIC Interpretations**

### **INTERPRETATION 04-23**

Subject: Part RC 1110, RC-2050(c), RC-3030(c), RC-3031(e)  
2004 Edition with 2005 Addendum

Question 1: Does RC-1110 specifically require acceptance of the jurisdiction for alternative NDE methods acceptable to the inspector when NDE in accordance with the original code of construction of the pressure retaining item is deemed not possible or practicable?

Reply 1: Yes, where required by the jurisdiction.

Question 2: Does RC-2050(c) specifically require acceptance of the jurisdiction for the examinations and tests to be used in accordance with the requirements of RC-2051?

Reply 2: Yes, where required by the jurisdiction.

Question 3: Does RC-3030(c) specifically require acceptance of the jurisdiction for examination and tests to be used in accordance with the requirements of RC-3031?

Reply 3: Yes, where required by the jurisdiction.

Question 4: Does RC-3031(e) specifically require acceptance of the jurisdiction for nondestructive examination (NDE)?

Reply 4: Yes, where required by the jurisdiction.

### **INTERPRETATION 04-22**

Subject: Part RC-1130  
2004 Edition

Question: May the inspector ensure that the required nondestructive examinations (NDE) have been performed satisfactorily by reviewing NDE reports?

Reply: Yes.

### **INTERPRETATION 04-21**

Subject: Part RC-1130  
2004 Edition with 2005 Addendum

Question: When nondestructive examination is used as an alternative to a pressure test is the inspector required to witness the nondestructive examination as it is being performed?

Reply: No.

### **INTERPRETATION 04-20**

Subject: Part RC-2051(b) RC-3031(b)  
2004 Edition with 2005 Addendum

Question: Is a pneumatic test as addressed in RC-2051(b) and RC-3031(b) permitted

to be used in lieu of a liquid pressure test when pneumatic testing is not addressed by the original Code of Construction?

Reply: Yes

#### **INTERPRETATION 04-19**

Subject: Part RD-2020  
2004 Edition with 2005 Addendum

Question 1: Is the welded repair of threaded holes in a studding outlet prohibited under the provisions of RD-2020?

Reply: No.

Question 2: May an "R" stamp holder repair threaded bolt holes of a studding outlet by welding and rethreading to the original size?

Reply: Yes, as long as all the requirements of the NBIC are met.

Question 3: Is the repair of threaded bolt holes in studding outlets through the use of a helical coil screw threaded insert covered under the NBIC?

Reply: No, mechanical repairs are not addressed by the NBIC.

#### **INTERPRETATION 04-18**

Subject: Part RD-3010  
2004 Edition with 2005 Addendum

Question: Using the rules of RD-3010, is rerating of a pressure-retaining item designed by a proof test method permitted using a later edition/addendum of the original Code of Construction?

Reply: Yes, except as may be limited by Code of Construction requirements for satisfactory assurance of accuracy in computing the maximum allowable working pressure. This would include, for example, that all pressure boundary parts be inspected to ensure that each part's current thickness is greater or equal to the minimum or nominal thicknesses as listed on the *Manufacturer's Data Report*.

#### **INTERPRETATION 04-17**

Subject: Part RD-2020(c)  
2001 Edition with 2003 Addendum

Question 1: Is the procedure for making holes to stop cracks acceptable or endorsed by the NBIC?

Reply: A procedure for making holes in a pressure retaining item to stop existing cracks is not addressed by the NBIC.

Question 2: May a crack be classified as a minor defect?

Reply: The NBIC does not define the term "minor defect." Defects should be examined to determine the extent of the defect and whether repair by welding is required.

#### **INTERPRETATION 04-16**

Subject: Part RA-2370 Interface with the Owner's Repair/Replacement Program  
2004 Edition with 2004 Addendum

Question: Is it permissible for an "NR" Certificate Holder to accept material, items, and services from an owner for repair/replacement activities at the owner's facility without placing the owner on the "NR" Certificate Holder's Approved Suppliers List when the material, items, and services were procured and accepted in accordance with the owner's Quality Program (e.g., 10 CFR-50 Appendix B or ASME/ANSI NQA-1)?

Reply: No.

#### **INTERPRETATION 04-15**

Subject: RD-2060 Utilizing a Flush Patch to Gain Access Window in Pressure Retaining Items  
2004 Edition with 2004 Addendum

Question: Does the NBIC prohibit making a tube to header weld from the inside of the header by cutting an access "window" in the header, making the tube to header weld, and repairing the header utilizing a flush patch?

Reply: No.

#### **INTERPRETATION 04-14**

Subject: RC-1000, RC-3000  
2004 Edition with 2004 Addendum

Question: Is the replacement of a safety valve or valves where the new safety valve set pressure or capacity is different from the information contained on the boiler data report an alteration?

Reply: No, provided the replacement valve meets the overpressure protection requirements of the original code of construction.

#### **INTERPRETATION 04-13**

Subject: RC-1020, RC-1030, Appendix 4 Repair Definition, and RC-3022  
2004 Edition with 2004 Addendum

Question: Is the replacement of an ASME "H" stamped cast iron section classified as a mechanical repair?

Reply: The NBIC does not address this type of repair.

#### **INTERPRETATION 04-12**

Subject: Part RD-1030 Welding Method 1, RC-1050(c) Replacement Parts  
2001 Edition with 2003 Addendum

Question: Does an ASME part fabricated using the alternative welding method

described in RD-1030, in lieu of Post Weld Heat Treatment required by the original code of construction, satisfy the requirements of RC-1050(c) for replacement parts?

Reply: No. Welded parts must meet the Post Weld Heat Treatment requirements of the original code of construction.

#### **INTERPRETATION 04-11**

Subject: RC-1050(c), RC-2050, RC-2051  
2001 Edition with 2003 Addendum

Question 1: When a replacement part is supplied by an "S" part manufacturer in accordance with RC-1050(c) without an original construction code pressure testing, must an examination or test on the part be performed in accordance with RC-2051?

Reply: Yes.

Question 2: Is it the responsibility of the R stamp holder to verify that the requirements of the original code of construction or the alternative examination or test as described in RC-2051 have been performed?

Reply: Yes.

#### **INTERPRETATION 04-10**

Subject: Part RC-2031, Flush Patches in Pipes and Tubes NPS 5 or less  
2004 Edition with 2004 Addenda

Question: May the installation of a flush patch to boiler tubes or pipes NPS 5 (DN 125) and smaller, where neither post weld heat treatment nor NDE other than visual examination is required by the original code of construction, be considered a routine repair?

Reply: Yes.

#### **INTERPRETATION 04-09**

Subject: Part RC-2031, Flush Routine Repairs  
2004 Edition with 2004 Addenda

Question: May repairs that are not included in RC-2031(a) be performed and documented as routine repairs?

Reply: No.

#### **INTERPRETATION 04-08**

Subject: Part RE-1050, Replacement Parts  
2004 Edition with 2004 Addenda

Question: Do replacement critical parts fabricated to a specification derived from the examination of parts fabricated by the valve manufacturer and a review of documents available in the public domain meet the requirements of RE-

1050?

Reply: No.

#### **INTERPRETATION 04-07**

Subject: Part RE-1050, Source of Parts  
2004 Edition with 2004 Addenda

Question: Do the requirements of NBIC, paragraph RE-1050, demand that critical parts be purchased directly from the valve manufacturer or their authorized representative?

Reply: No.

#### **INTERPRETATION 04-06**

Subject: Part RC-1050(c), RC-2050, RC-2051, RC-1110  
2004 Edition with 2004 Addenda

Question: When performing nondestructive examinations listed in RC-2051(e) and RC-3030(c), are written procedures and appropriately qualified personnel required?

Reply: Yes, when required by the original code of construction.

#### **INTERPRETATION 04-05**

Subject: Part RC-1050(c), RC-2050  
2001 Edition with 2003 Addenda

Question: When a replacement part is supplied by an "S" part manufacturer in accordance with RC-1050(c), without a pressure test in accordance with the original code of construction, may the "R" stamp holder install the part following the requirements of RC-2050 for the part's welds and attachment welds?

Reply: Yes.

#### **INTERPRETATION 04-04**

Subject: Part RC-3022(b) & (d), Re-rating  
2004 Edition with 2004 Addenda

Question: When re-rating a pressure-retaining item for lethal service, is it required to have the paint, lining, or other coverings removed prior to the pressure test when required by the original code of construction?

Reply: Yes.

#### **INTERPRETATION 04-03**

Subject: Part RC-3022(b) & (d), Re-rating  
2004 Edition with 2004 Addenda

Question: When re-rating a pressure retaining item, is it a requirement that insulation

or refractory be removed prior to the pressure test?

Reply: Yes. A sufficient amount of refractory or insulation, as determined by the inspector, shall be removed to allow the inspector to perform a visual inspection of the pressure-retaining item.

#### **INTERPRETATION 04-02**

Subject: Part RA-2213  
2004 Edition

Question: Does paragraph RA-2213 require a VR Certificate holder to verify that the manufacturer's nameplate capacity is correct in the process of repairing a Code stamped valve?

Reply: Yes, "condition" in RA-2213 includes nameplate information as well as physical condition of the valve.

#### **INTERPRETATION 04-01**

Subject: Part RD  
2004 Edition

Question: Does the NBIC prohibit the use of welded encapsulation box as an alteration method to encapsulate a local thin area on a pressure-retaining item in lieu of using weld metal build up or a flush patch?

Reply: No, however, repair of alteration methods other than those addressed in the NBIC shall be acceptable to the inspector and the jurisdiction.