

SECTION III, DIVISIONS 1 AND 2

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Interpretation: III-1-86-07

Subject: Division 1, NB-2223.3, Coupons From Separately Produced Test Forgings, SA-508 (1983 Edition With Summer 1985 Addenda)

Date Issued: September 6, 1985

File: NI85-041

Question: May test coupons representing SA-508 forgings with a rough machined weight of more than 1,000 lb be prepared in accordance with the requirements of NB-2223.3?

Reply: No. The material specification requirements must be met.

Note: On February 13, 2014, the BPV Committee on Construction of Nuclear Facility Components (III) voted to rescind this interpretation.

Interpretation: III-1-10-71

Subject: Division 1, NX-4622.7(b)-1, Exemptions to Mandatory PWHT

Date Issued: December 2, 2011

File: 11-1844

Question: Do the exemptions of NX-4622.7 include branch connection welds for P-Nos. 4, 5a, 5b, and 5c materials?

Reply: No.

Note: On May 15, 2014, the BPV Committee on Construction of Nuclear Facility Components (III) voted to rescind this interpretation.

Interpretation: III-1-13-39

Subject: Division 1, NF-1132(d) (1987 Addenda Through the 2013 Edition)

Date Issued: January 13, 2014

File: 13-1832

Question: Is it the intent of NF-1132(d) that all base plates be designated building structure?

Reply: No; the Design Specification shall identify the jurisdiction of the base plate.

Interpretation: III-1-13-40

Subject: Division 1, Table NCA-4134.17-2 and Appendix XXIII-1210

Date Issued: February 19, 2014

File: 14-33

Question (1): Are the personnel qualification records of Registered Professional Engineers classified per Table NCA-4134.17-2 as nonpermanent quality assurance records?

Reply (1): Yes.

Question (2): Is the retention period per Table NCA-4134.17-2 for Registered Professional Engineer records 3 yr after superseded or invalidated?

Reply (2): Yes.

Question (3): Does Appendix XXIII-1210 require the Owner, Designer, N Certificate Holder, or N3 Certificate Holder to maintain a record of the qualifications of the Registered Professional Engineer when subcontracted to another organization?

Reply (3): Yes.

Interpretation: III-1-13-41

Subject: Division 1, NB-2541 (1971 Edition)

Date Issued: February 19, 2014

File: 14-131

Question: Does NB-2541 require radiographic examination when ultrasonic techniques, per NB-2542, will not yield meaningful results due to geometric configuration?

Reply: Yes.

Interpretation: III-1-13-42

Subject: Division 1, NB-2551 (2000 Edition)

Date Issued: February 19, 2014

File: 14-155

Question: Does NB-2551(b) apply to a fitting machined from forged bar which meets the requirements of NB-2541 and will be subsequently welded to pipe?

Reply: Yes.

Interpretation: III-1-13-43

Subject: Division 1, NCA-3820(c) (2007 Edition Through the 2009 Addenda)

Date Issued: February 19, 2014

File: 14-169

Question: Does NCA-3820(c) permit a Certificate Holder, with material supply in their scope, to furnish material heat treated by an approved supplier qualified by the Certificate Holder provided the activities are identified and controlled in accordance with the Certificate Holder's Quality Assurance Program?

Reply: Yes.

Interpretation: III-1-13-44

Subject: Division 1, NCA-1130(a), NCA-2142, NCA-3252(a), and Article NB-7000

Date Issued: February 19, 2014

File: 14-244

Question (1): Does NCA-2142 require the Owner or his designee to identify the loadings and combination of loadings to be considered in the Design Specification?

Reply (1): Yes.

Question (2): Does NCA-2142 require the Owner or his designee to identify the service limits to be applied to the loadings and combination of loadings in the construction of a component?

Reply (2): Yes.

Question (3): Is the certified Design Specification, as defined in NCA-3252(a) and NCA-3256(a), a principal document that forms the complete basis for Division 1 construction of a component?

Reply (3): Yes.

Question (4): After fulfilling the requirements of NCA-2142, NCA-3252(a), and NCA-3256(a), does the scope of Section III cover new loads identified after the component has been in operation in the plant?

Reply (4): No.

Question (5): Does NB-7732 require that each pressure relief valve installed in the system to provide overpressure protection be individually tested?

Reply (5): No.

Question (6): Does NB-7311(a) require the installation geometry be replicated in the capacity certification tests of NC-7732?

Reply (6): No.

Question (7): Does NB-7732.1 require the pressure relief valve that is tested be identical to the pressure relief valve to be used in service?

Reply (7): No.

Question (8): Does NCA-2141(a) and NCA-2142 require that the Design Specification identify the conditions to be considered in the overpressure protection of a component?

Reply (8): Yes.

Question (9): Does NB-7321 allow unexpected system excess pressure transients to exceed Service Level C limits?

Reply (9): No.

Question (10): Does NB-7731.3 require the capacity certification test be done at the maximum “unexpected system excess pressure transient condition”?

Reply (10): No.

Interpretation: III-1-13-45

Subject: Division 1, NCA-3855.5(a)(1), Utilization of Unqualified Source Material

Date Issued: February 19, 2014

File: 14-262

Question (1): Does NCA-3855.5(a)(1) permit the organization that establishes the material form and issues the source material test report to provide a written statement that no welding with filler material was performed on the source material supplied to the Material Organization?

Reply (1): Yes.

Question (2): Does the written statement identified in Question (1) stating no welding with filler metal was performed need to identify the address and/or the location of the organization that establishes the material form and issues the source material test report?

Reply (2): Yes.

Interpretation: III-1-13-46

Subject: Division 1, NB/NC/ND-3650, S_m , S_h , and S_y

Date Issued: March 12, 2014

File: 12-1280

Question (1): Is it the intent that S_m be taken at the Design Temperature in NB-3652?

Reply (1): Yes.

Question (2): Is it the intent that S_m or S_y be taken at the temperature consistent with the loading under consideration in NB-3654.2(a), NB-3655.2(a), NB-3656(a)(2), NB-3656(b)(2), NB-3656(b)(3), and NB-3656(b)(4)?

Reply (2): Yes.

Question (3): Is it the intent that S_h or S_y be taken at the temperature consistent with the loading under consideration in NC-3654.2(a), NC-3655(a)(2), NC-3655(b)(2), and NC-3655(b)(4)?

Reply (3): Yes.

Question (4): Is it the intent that S_h or S_y be taken at the temperature consistent with the loading under consideration in ND-3654.2(a), ND-3655(a)(2), ND-3655(b)(2), and ND-3655(b)(4)?

Reply (4): Yes.

Interpretation: III-1-13-47

Subject: Division 1, NB/NC/ND/NE/NF/NG-5521(a)(4) (Winter 1975 Addenda Through the 2013 Edition)

Date Issued: April 3, 2014

File: 12-1972

Question: Is it the intent of NB/NC/ND/NE/NF/NG-5521(a)(4), CC-5120, WB-5500, and WC-5500 to require all NDE personnel performing any Code required nondestructive examinations (NDE) regardless of the NDE method to be visually examined for near-visual acuity using Jaeger Number 1 letters in lieu of the Jaeger Number 2 letters required by SNT-TC-1A, paragraph 8.2.1?

Reply: Yes.

Note: This interpretation also appears as III-2-13-07 in this document and as III-3-13-03 in Section III, Division 3.

Interpretation: III-1-13-48

Subject: Division 1, Appendix I, Fig. I-9.1, Design Fatigue Curve for Martensitic Stainless Steel

Date Issued: May 21, 2014

File: 12-1021

Question (1): Does Section III specify the design fatigue curve to be used for martensitic stainless steels?

Reply (1): No.

Question (2): May the design fatigue curve of Fig. I-9.1 be used for martensitic stainless steels?

Reply (2): Yes.

Question (3): May interpolation between the two ultimate strength curves of Fig. I-9.1 be used for martensitic stainless steels?

Reply (3): Yes.

Interpretation: III-1-13-49

Subject: Division 1, NF-3322.8(c)(4)(-a)

Date Issued: May 21, 2014

File: 12-1042

Question: NF-3322.8(c)(4)(a) states: "The diameter of the pin shall not be less than seven-eighths of the width of the body of the eyebar." Is this requirement necessary when both the pin and the eyebar can meet the stress requirements of Subsection NF after detailed stress calculations?

Reply: Yes.

Interpretation: III-1-13-50

Subject: Division 1, NCA-1282 (1998 Edition With the 1999 Addenda, and Later Editions and Addenda Through the 2013 Edition)

Date Issued: May 21, 2014

File: 13-1820

Question: Is it the intent of NCA-1282 to prohibit an NS Certificate Holder from attaching supports to building structure during fabrication at the location authorized by its Certificate?

Reply: No.

Interpretation: III-1-13-51

Subject: Division 1, NCA-9200, Definition of "Appurtenance"

Date Issued: May 21, 2014

File: 14-22

Question: Does the word "it" in the definition of appurtenance in NCA-9200 refer to the item intended to be attached to the component?

Reply: Yes.

Interpretation: III-1-13-52

Subject: Division 1, NB-3222.4, NB-3232.3, and Appendix II-1500 (2007 Edition Through the 2008 Addenda)

Date Issued: May 21, 2014

File: 14-176

Question (1): Is Appendix II-1500 applicable for fatigue analysis of bolts as an alternative for NB-3232.3?

Reply (1): Yes.

Question (2): For threaded members, is the fatigue strength reduction factor less than 4.0 applicable if it is obtained by cyclic test in accordance with Appendix II-1500?

Reply (2): No. Fatigue strength reduction factor of less than 4.0 may be obtained using Mandatory Appendix II-1600 only for bolting materials having less than 100 ksi tensile strength.

Interpretation: III-1-13-53

Subject: Division 1, NB-7121 and NB-7321

Date Issued: May 21, 2014

File: 14-344

Question: When overpressure protection is provided by use of a design where the Service Limits specified in the Design Specification are not exceeded, does NB-7120(c) require a pressure relief device?

Reply: No.

Interpretation: III-1-13-54

Subject: Division 1, NCA-3859.1(d) and NCA-3842.2(h)(2), Audits of Material Organizations and Suppliers

Date Issued: May 21, 2014

File: 14-352

Question: Does the phrase "at least annually" in NCA-3859.1(d) apply to audits of qualified Material Organizations and approved suppliers performed by certified Material Organizations and Certificate Holders?

Reply: No.

Interpretation: III-1-13-55

Subject: Division 1, NC-3224.6 and NC-3224.8, Design of Head-to-Shell Junction of Ellipsoidal Head and Cylindrical Shell

Date Issued: May 21, 2014

File: 14-476

Question: Do the provisions of NC-3211.1(c) allow complete stress analysis, performed in accordance with the provisions therein, as an alternative to design rules specified elsewhere in NC-3200?

Reply: Yes.

Interpretation: III-1-13-56

Subject: Division 1, NF-2340, Impact Test Frequency

Date Issued: May 21, 2014

File: 14-723

Question: Does NF-2340 require testing based on the definition of form or manufacturing process for material specification SA-350, Grade LF2?

Reply: Yes. SA-350, Grade LF2 is listed as a forging material in Section II; thus NF-2342 applies.

Interpretation: III-1-13-57

Subject: Division 1, NCA-9200 and NB-5210(a)(2)

Date Issued: May 21, 2014

File: 14-753

Question (1): For welds in components constructed from P-No. 3 material, is it permissible to perform radiographic examination prior to final postweld heat treatment according to NB-5120(a)(2)?

Reply (1): Yes.

Question (2): Do the requirements of NB-5120(a)(2) apply to P-No. 3 piping?

Reply (2): Yes.

Question (3): If the material of the piping spool is P-No. 3, is it permissible to apply NB-5120(a)(2) on the weld joint with P-No. 3 material vessel nozzle?

Reply (3): Yes.

Interpretation: III-1-13-58

Subject: Division 1, NCA-9200, Definition of “Approved Supplier”

Date Issued: May 22, 2014

File: 14-810

Question: May an approved supplier, as defined in NCA-9200, have a limited scope quality system program [NCA-3811(b)] applicable to the activities performed?

Reply: Yes.

Interpretation: III-1-13-59

Subject: Division 1, NC-1100(c), NC-3211.1(c), NC-3811.2, and NC-3911

Date Issued: May 22, 2014

File: 14-837

Question: Is it permissible to use the alternative design rules of NC-3200 in the design of Class 2 atmospheric and 0 psi to 15 psi storage tanks?

Reply: Yes.

Interpretation: III-2-13-07

Subject: Division 2, CC-5120 (Winter 1975 Addenda Through the 2013 Edition)

Date Issued: April 3, 2014

File: 12-1972

Question: Is it the intent of NB/NC/ND/NE/NF/NG-5521(a)(4), CC-5120, WB-5500, and WC-5500 to require all NDE personnel performing any Code required nondestructive examinations (NDE) regardless of the NDE method to be visually examined for near-visual acuity using Jaeger Number 1 letters in lieu of the Jaeger Number 2 letters required by SNT-TC-1A, paragraph 8.2.1?

Reply: Yes.

Note: This interpretation also appears as III-1-13-47 in this document and as III-3-13-03 in Section III, Division 3.

Interpretation: III-2-13-08

Subject: Division 2, CC-4333.4, Initial Qualification Tests

Date Issued: May 21, 2014

File: 14-538

Question: Does CC-4333.4 require the initial splicer qualification to meet the requirements of Table CC-4333-1, Minimum Average Mechanical Splice or Welded Joint Tensile Strength column?

Reply: No.

Interpretation: III-2-13-09

Subject: Division 2, CC-2442.3

Date Issued: May 28, 2014

File: 14-796

Question: Shall the requirements of CC-2442.3.2 and CC-2442.3.3 be met for permanent tendon corrosion preventative coatings?

Reply: Yes.