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REGULATORY GUIDE

OFFICE OF NUCLEAR REGULATORY RESEARCH

REGULATORY GUIDE 1.85

MATERIALS CODE CASE ACCEPTABILITY ASME SECTION III DIVISION 1

A. INTRODUCTION

Section 50.55a, "Codes and Standards," of 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities," requires, in part, that components of the reactor coolant pressure boundary be designed, fabricated, erected, and tested in accordance with the requirements for Class 1 components of Section III, "Nuclear Power Plant Components,"¹ of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code or equivalent quality standards. Footnote 6 to §50.55a states that the use of specific Code Cases may be authorized by the Commission upon request pursuant to §50.55a(a)(2)(ii), which requires that proposed alternatives to the described requirements or portions thereof provide an acceptable level of quality and safety.

General Design Criterion 1, "Quality Standards and Records," of Appendix A, "General Design Criteria for Nuclear Power Plants," to 10 CFR Part 50 requires, in part, that structures, systems, and components important to safety be designed, fabricated, erected, and tested to quality standards commensurate with the importance of the safety function to be performed. Where generally recognized codes and standards are used, Criterion 1 requires that they be identified and evaluated to determine their applicability, adequacy, and sufficiency and be supplemented or modified as necessary to ensure a quality product in keeping with the required safety function.

Criterion 30, "Quality of Reactor Coolant Pressure Boundary," of the same appendix requires, in part, that components that are part of the reactor coolant pressure boundary be designed, fabricated, erected, and tested to the highest quality standards practical.

Appendix B, "Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants," to 10 CFR

¹ Copies may be obtained from the American Society of Mechanical Engineers, United Engineering Center, 345 East 47th Street, New York, New York 10017.

Part 50 requires, in part, that measures be established for the control of special processing of materials and that proper testing be performed.

This regulatory guide lists those Section III ASME Code Cases oriented to materials and testing that are generally acceptable to the NRC staff for implementation in the licensing of light-water-cooled nuclear power plants.

Any guidance in this document related to information collection activities has been cleared under OMB Clearance No. 3150-0011.

B. DISCUSSION

The Boiler and Pressure Vessel Committee of the ASME publishes a document entitled "Code Cases."¹ Generally, the individual Code Cases that make up this document explain the intent of Code rules or provide for alternative requirements under special circumstances.

Most Code Cases are eventually superseded by revision to the Code and then are annulled by action of the ASME Council. In such cases, the intent of the annulled Code Case becomes part of the revised Code, and therefore continued use of the Code Case intent is sanctioned under the rules of the Code. In other cases, the Code Case is annulled because it is no longer acceptable or there is no further requirement for it. A Code Case that was approved for a particular situation and not for a generic application should be used only for construction of the approved situation because annulment of such a Code Case could result in construction that would not meet Code requirements.

The Code Cases listed in this guide are limited to those cases applicable to Section III that are oriented toward materials and testing.

All published Code Cases in the area of materials and testing that are applicable to Section III of the Code and were

USNRC REGULATORY GUIDES

Regulatory Guides are issued to describe and make available to the public methods acceptable to the NRC staff of implementing specific parts of the Commission's regulations, to delineate techniques used by the staff in evaluating specific problems or postulated accidents, or to provide guidance to applicants. Regulatory Guides are not substitutes for regulations, and compliance with them is not required. Methods and solutions different from those set out in the guides will be acceptable if they provide a basis for the findings requisite to the issuance or continuance of a permit or license by the Commission.

This guide was issued after consideration of comments received from the public. Comments and suggestions for improvements in these guides are encouraged at all times, and guides will be revised, as appropriate, to accommodate comments and to reflect new information or experience.

Comments should be sent to the Secretary of the Commission, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Docketing and Service Branch.

The guides are issued in the following ten broad divisions:

1. Power Reactors
2. Research and Test Reactors
3. Fuels and Materials Facilities
4. Environmental and Siting
5. Materials and Plant Protection
6. Products
7. Transportation
8. Occupational Health
9. Antitrust and Financial Review
10. General

Copies of issued guides may be purchased at the current Government Printing Office price. A subscription service for future guides in specific divisions is available through the Government Printing Office. Information on the subscription service and current GPO prices may be obtained by writing the U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Publications Sales Manager.

* In effect on September 1, 1983, were reviewed for inclusion in this guide. In addition to the listing of acceptable Code Cases, this revision of the guide includes listings of (1) Code Cases that were identified as acceptable in a prior version of this regulatory guide and that were annulled after the original issuance of this guide (June 1974) and (2) Code Cases that were identified as acceptable in a prior version of this regulatory guide and that were superseded by revised Code Cases after the original issuance of this guide (June 1974). Code Cases that are not listed herein are either not endorsed or will require supplementary provisions on an individual basis to attain endorsement status.

The endorsement of a Code Case by this guide constitutes acceptance of its technical position for applications not precluded by regulatory or other requirements or by the recommendations in this or other regulatory guides. Contingent endorsement is indicated in regulatory position C.1.a for specific cases. However, it is the responsibility of the user to make certain that no regulatory requirements are violated and that there are no conflicts with other recommended limitations resulting from Code Case usage.

Acceptance or endorsement by the NRC staff applies only to those Code Cases or Code Case revisions with the date of "Council Approval" as shown in the regulatory position of this guide. Earlier or later revisions of a Code Case are not endorsed by this guide. New Code Cases will require evaluation by the NRC staff to determine if they qualify for inclusion in the approved list. Because of the continuing change in the status of Code Cases, it is planned that this guide will require periodic updating to accommodate new Code Cases and any revisions of existing Code Cases.

C. REGULATORY POSITION

1. The Section III ASME Code Cases² listed below (by number, date of Council approval, and title) are acceptable to the NRC staff for application in the construction of components for light-water-cooled nuclear power plants. Their use is acceptable within the limitations stated in the "Inquiry" and "Reply" sections of each individual Code Case, within the limitations of such NRC or other requirements as may exist, and within the additional limitations recommended by the NRC staff given with the individual Code Cases in the listing. The categorization of Code Cases used in this guide is intended to facilitate the Code Case listing and is not intended to indicate a limitation on its usage.

a. Materials-oriented Code Cases (Code Case number, date of Council approval,³ and title):

(1) Code Cases involving plate:

N-7-1 12-13-82 High Yield Strength Steel, Section III, Division 1, Class 1 Vessels

* Lines indicate substantive changes from Revision 21.

² A numerical listing of the Code Cases appears in the appendix.

³ When more than one date is given, the earlier date is that on which the Code Case was approved by the ASME Council and the later date(s) is that on which the Code Case was reaffirmed by the ASME Council.

Code Case N-7-1 is acceptable subject to the following condition in addition to those conditions specified in the Code Case: The information required to be developed by Note 1 in the Code Case should be provided in each referencing Safety Analysis Report.

1571	03-03-73	Additional Material for SA-234
(N-41)	01-08-79	Carbon Steel Fittings, Section III
	01-21-82	

(2) Code Cases involving pipe and tubes:

1474-1	10-29-71	Integrally Finned Tubes for Section III
(N-17)	01-08-79	
	01-21-82	
1484-3	08-13-76	SB-163 Nickel-Chromium-Iron Tubing (Alloy 600 and 690) and Nickel-Iron-Chromium Alloy 800 at a Specified Minimum Yield Strength of 40.0 Ksi Section III, Division 1, Class 1
(N-20)	08-30-79	
	07-16-82	

1527	06-26-72 ⁴	Integrally Finned Tubes, Section III
(N-26)	01-08-79	
	01-21-82	

N-188-1	05-15-78	Use of Welded Ni-Fe-Cr-Mo-Cu (Alloy 825) and Ni-Cr-Mo-Cb (Alloy 625) Tubing, Section III, Division 1, Class 2 and 3
	07-13-81	

N-224-1	05-11-81	Use of ASTM A500 Grade B and ASTM A501 Structural Tubing for Welded Attachments for Section III, Class 2, 3, and MC
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N-294	08-25-80	SB-148 Alloy 952 and 954, and SB-62 Alloy 836 Fittings, Section III, Division 1, Class 2
	05-25-83	

N-321	07-13-81	Use of Modified SA-249, Type 304 for Section III, Division 1, Class 1 Construction
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N-342	04-02-82	Use of SA-249 and SA-312 Type 317 Stainless Steel, Section III, Division 1, Class 1, 2, and 3
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N-372	02-14-83	SB-163 Ni-Fe-Cr-Mo-Cu Alloy 825 (UNS N08825) Tubing, Section III, Division 1
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N-379	04-04-83	Bimetallic Tubing Section III, Division 1, Class 1
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(3) Code Cases involving bars and forgings:

1335-10	08-28-78	Requirements for Bolting Materials, Section III
(N-3-10)	08-28-81	

1337-11	05-15-78	Special Type 403 Modified Forgings or Bars, Section III, Division 1, Class 1 and CS
(N-4-11)	07-13-81	

1542-1	04-29-74	Type 403 Forgings or Bars for Bolting Material, Section III
(N-33)	01-08-79	
	01-21-82	

1626-1	01-08-79	Normalized and Tempered 1-1/4 Cr
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⁴ Corrected date.

(N-65-1)	01-21-82	Low Alloy Steel Forgings, Section I and Section III
1747	03-01-76	Requirements for Martensitic Stainless Steel Forgings with 13% Chromium and 4% Nickel, Section III, Division 1
(N-124)	01-08-79	
	07-13-81	
1772	08-13-76	Use of SA-453 Bolts in Service
(N-140)	08-30-79	Below 800°F Without Stress Rupture Tests, Section III, Division 1
	07-16-82	
1793	01-14-77	Structural Steel Rolled Shapes, Section III, Division 1, Class 2, 3, and MC
(N-156)	01-07-80	
	02-14-83	
N-299	11-17-80	Use of Nickel-Chromium-Molybdenum-Columbium Alloy 625 Forgings, Section III, Division 1, Class 2 and Class 3 Components
N-352	07-16-82	Use of SA-638 Grade 660 Forgings and Bars Below 700°F Without Stress Rupture Tests, Section III, Division 1
N-353	07-16-82	Marking of SA-354 Grade BD Bolt- ing Section III, Division 1
N-367	02-14-83	SA-372 Type V, Grade 1, Class B, Section III, Division 1
N-370	02-14-83	Modified SA-705 Grade XM-13 Forgings, Section III, Division 1
N-388	07-25-83	Component Support Bolting, Section III, Division 1, Classes 2, 3, and MC

(4) Code Cases involving general usage:

N-5-1	12-13-82	Nickel Chromium Age Hardenable Alloys (Alloy X750), Section III, Division 1, Classes 1, 2, 3, MC, and CS
N-60-1	05-25-83	Material for Core Support Structures, Section III, Division 1
N-71-12	02-14-83	Additional Materials for Component Supports Fabricated by Welding, Section III, Division 1, Class 1, 2, 3, and MC

Code Case N-60-1 is acceptable subject to the following condition in addition to those conditions specified in the Code Case: Welding of age-hardenable alloy SA-453 Grade 660 and SA-637 Grade 688 should be performed when the material is in the solution-treated condition.

Code Case N-71-12 is acceptable subject to the following condition in addition to those conditions specified in the Code Case: The maximum measured ultimate tensile strength (UTS) of the component support material should not exceed 170 Ksi in view of the susceptibility of high-strength materials to brittleness and stress corrosion cracking. Certain applications may exist where a UTS value of up to 190 Ksi could be considered acceptable for a material and, under this condition, the Design Specification should specify impact testing for the material. For these cases, it should be demonstrated by the applicant that (1) the impact test results for the mate-

rial meet code requirements and (2) the material is not subject to stress corrosion cracking by virtue of the fact that (a) a corrosive environment is not present and (b) the component that contains the material has essentially no residual stresses or assembly stresses, and it does not experience frequent sustained loads in service. In the last sentence of paragraph 5.3, reference should be made to paragraph 4.5.2.2, "Alternate Atmosphere Exposure Time Periods Established by Test," of the AWS D.1.1 Code for the evidence presented to and accepted by the Authorized Inspector concerning exposure of electrodes for longer periods of time. The provisions of paragraph 4.3 are not acceptable on a generic basis. Paragraph 16.2.2 is not acceptable as written and should be replaced with the following: When not exempted by 16.2.1, above, the postweld head treatment shall be performed in accordance with NF-4622 except that for ASTM A-710 Grade A material, it shall be at least 1000°F (540°C) and shall not exceed 1150°F (620°C) for Class 1 and Class 2 material and 1175°F (640°C) for Class 3 material. The new holding time at temperature for weld thickness (nominal) shall be 30 minutes for 1/2 inch or less, 1 hour per inch for thickness over 1/2 inch to 5 inches, and 5 hours plus 15 minutes for each additional inch over 5 inches.

1714-2	08-28-78	Postweld Heat Treatment of P-1
(N-102-2)	07-13-81	Material, Section III, Class MC
1754	01-14-77	Hard Surfacing by the Spray-Fuse Method, Section III, Class 1, 2 and
(N-126)	01-07-80	3 Construction
	12-13-82	
1759-1	05-15-78	Material for Internal Pressure Retain- ing Items for Pressure Relief Valves,
(N-131-1)	07-13-81	Section III, Division 1, Class 1, 2,
	12-11-81	and 3

Code Case 1759-1 is acceptable subject to the following condition in addition to those conditions specified in the Code Case: Applicants using this Case should also use Code Case 1711 for the design of pressure relief valves.

N-205	05-15-78	Use of Ductile Iron SA-395 for
	07-13-81	Section III, Division 1, Class 3
		Construction
N-207-1	03-19-79	Use of Modified SA-479 Type XM-19
	01-21-82	for Section III, Division 1, Class 1,
		2, 3, or CS Construction
N-242-1	04-10-80	Materials Certification, Section III,
	05-06-83	Division 1, Classes 1, 2, 3, MC, and
		CS Construction

Code Case N-242-1 is acceptable subject to the following condition in addition to those conditions specified in the Code Case: Applicants should identify in their Safety Analysis Reports the components and supports for which the Code Case is being applied and should specify the respective paragraphs of the Code Case.

N-245	07-09-79	Use of ASTM B61-76 and B62-76
	07-16-82	Copper Alloy Castings for Section III,
		Division 1, Class 3 Construction

[N-246-2	05-25-83	SB-169, Alloy C61400, Section III, Division 1, Class 3
[N-249-3	02-14-83	Additional Materials for Subsection NF Class 1, 2, 3, and MC Component Supports Fabricated Without Welding, Section III, Division 1
N-265 ⁵	01-07-80	Modified SA-487 Castings, Section III, Division 1, Class 1
N-296	11-17-80	Welding Material, Section III, Division 1 Construction
N-337	04-02-82	Use of ASTM B525-70 Grade II, Type II, Sintered Austenitic Stainless Steel for Class 2, 3, and MC Component Standard Supports, Section III, Division 1
N-348	09-09-82	Use of SA-574 Socket Head Cap Screws, Section III, Division 1

Code Case N-348 is acceptable subject to the following condition in addition to those conditions specified in the Code Case: Applicants should justify in their Safety Analysis Reports why use of these socket head cap screws will not result in early failure from stress corrosion cracking.

[N-371	02-14-83	12 Cr-1W-1Mo-1/4V Martensitic Stainless Steel Valve Internals, Section III, Division 1
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b. Testing-oriented Code Cases:

(1) Code Case involving plates:

1407-3	07-01-74	Time of Examination for Classes 1,
(N-10)	01-08-79	2, and 3 Section III Vessels
	01-21-82	

(2) Code Case involving bars and forgings:

N-329	12-11-81	Examination of Bar Material, Section III, Division 1, Class 1
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(3) Code Case involving pipe and tubes:

1755-1	01-14-77	Alternative Rules for Examination
(N-127)	01-07-80	of Welds in Piping, Section III,
	02-14-83	Class 1 and 2 Construction

(4) Code Cases involving general usage:

N-274	03-17-80	Alternative Rules for Examination
	09-07-82	of Weld Repairs for Section III, Division 1 Construction

Code Case N-274 is acceptable subject to the following condition⁶ in addition to those conditions specified in

⁵Code Case N-265 was allowed to expire on 1-7-83 because of an administrative error. It was reinstated on 9-1-83 with no technical changes. The Case is therefore considered in effect during that period of time.

⁶The reason for the conditional acceptance of paragraph 6 is to make certain that there is a qualified ultrasonic testing procedure capable of detecting small flaws and differentiating the small flaws from geometric reflectors. This paragraph does not in any way alter the acceptance criteria as specified in paragraph 3.

the Code Case. Paragraph 6 should be expanded as follows: The ultrasonic examination procedures shall be proven by actual demonstration, to the satisfaction of the Authorized Nuclear Inspector, that the procedures are capable of detecting unacceptable cracks according to Section XI requirements.

N-298	11-17-80	Examination of Component Supports, Section III, Division 1, Class 1, 2, 3, and MC
N-351	07-16-82	Use of Subsize Charpy V-Notch Specimens, Section III, Division 1

2. Code Cases that were endorsed by the NRC in a prior version of this guide and were later annulled by action of the ASME Council should be considered as deleted from the list of acceptable Code Cases as of the date of the ASME Council action that approved the annulment. Such Code Cases that were annulled on or after July 1, 1974, are listed in the following by number, effective dates,⁷ and title.⁸

1141-1	08-31-61	Foreign Produced Steel
	07-23-76	
1332-7	01-08-79	Requirements for Steel Forgings,
(N-1-7)	07-01-82	Section III, Division 1
1334-3	04-29-74	Requirements for Corrosion-
(N-2)	01-08-79	Resisting Steel Bars and Shapes,
	01-01-81	Section III
1345-2	03-09-72	Requirements for Nickel-Molybde-
(N-6)	03-01-79	num-Chromium-Iron Alloys, Sec-
		tion III
1395-4	01-08-79	SA-508, Class 2 Forgings with
(N-9-4)	07-01-82	Modified Manganese Content, Sec-
		tion III
1412-4	11-03-75	Modified High Yield Strength Steel
	01-01-77	for Section III, Division 1, Class 1
		Vessels

Code Case 1412-4 was acceptable subject to the following condition in addition to those conditions specified in the Code Case: The information required to be developed by Note 1 in the Code Case should be provided in each referencing Safety Analysis Report. The material given in the Inquiry section of the Code Case should be SA-508, Class 4b, instead of SA-508, Class 4.

1414-5	08-29-77	High Yield Strength Cr-Mo Steel
(N-11-5)	08-29-80	for Section III, Division 1, Class 1
		Vessels

Code Case 1414-5 was acceptable subject to the following condition in addition to those conditions specified in the Code Case: The information required to be developed by Note 1 in the Code Case should be provided in each referencing Safety Analysis Report.

⁷Earlier date—date Code Case was approved by ASME Council; later date—date Code Case was annulled. Where more than two dates appear, the last date is the date that the Code Case was annulled. The middle date (or dates) was the date of reaffirmation of the Code Case.

⁸Code Cases 1401-1, 1493-1, and 1599, which were listed in the original issue of this guide, were annulled by Council action prior to July 1, 1974.

1423-2 03-09-72 Wrought Type 304 and 316 with
07-01-77 Nitrogen Added, Sections I, III,
VIII, Division 1 and 2

Code Case 1423-2 was acceptable subject to compliance with the recommendations contained in Regulatory Guides 1.31, "Control of Ferrite Content in Stainless Steel Weld Metal," and 1.44, "Control of the Use of Sensitized Stainless Steel."

1434-1 03-09-72 Postweld Heat Treatment of SA-487
01-01-78 Class 8N Steel Castings, Section III

1456-2 06-25-73 Substitution of Ultrasonic Examination
(N-15) 03-01-79 for Progressive Penetrant or
Magnetic Particle Examinations of
Partial Penetration and Oblique
Nozzle Attachment Welds, Sec-
tion III

1475-1⁹ 03-02-74 Ferritic-Austenitic Stainless Steel
07-01-75 Seamless Tubes for Section III,
Class 2 and 3 Construction

1498-1 11-06-72 SA-508-Class 2 and 3, Minimum
(N-22) 01-08-79 Tempering Temperature, Section
07-01-82 III

1515 03-09-72 Ultrasonic Examination of Ring
07-01-77 Forgings for Shell Sections, Section
III, Class 1 Vessels

1521-1 04-29-74 Use of H-Grades of SA-240, SA-479,
01-01-78 SA-336, and SA-358, Section III

Code Case 1521-1 was acceptable subject to compliance with the recommendations contained in Regulatory Guides 1.31, "Control of Ferrite Content in Stainless Steel Weld Metal," and 1.44, "Control of the Use of Sensitized Stainless Steel."

1528-3 11-03-75 High Strength Steel SA-508, Class 2
01-01-78 and SA-541, Class 2 Forgings, Sec-
tion III, Class 1 Components

Code Case 1528-3 was acceptable subject to the following condition in addition to those conditions specified in the Code Case: The information required to be developed by Note 1 in the Code Case should be provided in each referencing Safety Analysis Report.

1529⁹ 06-29-72 Materials for Instrument Line Fit-
07-01-73 tings, Section III

1531 08-14-72 Electrical Penetrations, Special Al-
03-21-77 loys for Electrical Penetration Seals,
Section III

1532 08-14-72 Section III, Class 3 Components Made
01-01-78 of 8 Percent and 9 Percent Nickel
Steel

1557-3 01-08-79 Steel Products Refined by Second-
(N-37-3) 07-01-82 ary Remelting, Section III and
VIII, Division 1 and 2

1567 03-03-73 Testing Lots of Carbon and Low
01-01-78 Alloy Steel Covered Electrodes,
Section III

1568 03-03-73 Testing Lots of Flux Cored and Fab-
01-01-78 ricated Carbon and Low Alloy Steel
Welding Electrodes, Section III

1578 06-25-73 SB-167 Nickel-Chromium-Iron (Al-
(N-43) 01-08-79 loy 600) Pipe or Tube, Section
07-01-82 III

1583 06-25-73 Use of 80-40 Carbon Steel Castings,
03-21-77 Section III

1587⁹ 08-13-73 SA-508 Class 3 Forgings with 0.4/1.0
12-31-75 Ni for Section III and VIII, Division
2 Construction

1590 08-13-73 Chemical Analysis Variations, Sec-
03-21-77 tion III Construction

1602-1 04-29-74 Use of SB-42 Alloy 122, SB-111
12-31-74 Alloys 122, 715 and 706, SB-171
Alloys 715 and 706 and SB-466
Alloys 706 and 715, Section III,
Class 2 and 3 Components

1603 12-17-73 Toughness Tests When Cross-Section
07-01-74 Limits Orientation and Location of
Specimens

1605 11-05-73 Cr-Ni-Mo-V Bolting Material for
11-20-78 Section III, Class 1 Components
03-17-80

1608-1 12-17-73 Use of ASME SB-265, SB-337, SB-338,
03-21-77 SB-348, and SB-371, Grades 1, 2, 3,
and 7 Unalloyed Titanium and ASTM
B-363 Titanium Welding Fittings,
Section III Class 2 and 3 Components

1612 12-17-73 Use of Type 308 Stainless Steel
(N-56) 07-01-78 Rod and Bar for Section III, Class
1, 2, 3, and CS Construction

1613 12-17-73 Use of SA-372 Class IV Forgings,
01-01-78 Section III Construction

1615 12-17-73 Use of A587-73, Section III, Class 3
01-01-78 Construction

1616⁹ 12-17-73 Ultrasonic Examination of Seamless
07-01-75 Austenitic Steel Pipe, Section III,
Class 1 Construction

1622⁹ 03-02-74 PWHT of Repair Welds in Carbon
01-01-76 Steel Castings, Section III, Class 1,
2, and 3

1625 03-02-74 Repair of Section III Class 2 and 3
12-31-74 Tanks

1634-2 08-13-76 Use of SB-359 for Section III,
(N-68) 07-01-78 Division 1, Class 3 Construction

1637¹⁰ 04-29-74 Effective Date for Compliance with
01-01-75 NA-3700 of Section III

1645⁹ 08-12-74 Use of DeLong Diagram for Calcul-
01-01-76 ating the Delta Ferrite Content of
Welds in Section III, Class 1, 2, and
CS Construction

1648 08-12-74 SA-537 Plates for Section III, Class 1,
07-01-76 2, 3, and MC Components

1649⁹ 08-12-74 Modified SA 453-GR 660 for Class 1,
01-01-76 2, 3, and CS Construction

1650 08-12-74 Use of SA-414 Grade C for Class 2
12-31-74 and 3 Components, Section III,
Division 1

⁹ Code Case was annulled on date as indicated, but the annulment was first so indicated in Revision 12 of this guide.

¹⁰ Code Case 1637 has been accepted only on a case-by-case basis.

1664	11-04-74 03-21-77	Use of Cr-Ni-Fe-Mo-Cu-Cb Stabilized Alloy Cb-3 for Section III Class 2 and 3 Construction	(N-125)	07-01-78	Steel Pipe Welded With Filler Metal, Section III, Division 1, Construction
1666	11-04-74 07-01-75	Use of SB-12, Alloy 122 for Section III, Class 2 and 3 Construction	1760	04-26-76 01-01-78	Maximum Dimensions for Isolated Pores in Welds—Class 1 Components, Section III, Division 1
1682-1	08-11-75 12-31-75	Alternate Rules for Material Manufacturers and Suppliers, Section III, Subarticle NA-3700	1766	04-26-76 07-01-77	Testing Requirements for Welding Materials, Class 1, 2, 3, MC and CS Construction, Section III, Division 1
1684 ⁹	03-03-75 01-01-76	A637 Grade 718 for Bolting Class 1 and 2 Construction	1767	04-26-76 01-01-77	Examination of Tubular Products Without Filler Metal—Class 1 Construction, Section III, Division 1
1690 ⁹	04-28-75 01-01-77	Stock Materials for Section III Construction, Section III, Division 1	1770	08-13-76 (N-139) 01-01-79	Testing of Electroslag Wire and Flux for Class 1, 2, 3, MC, and CS Construction, Section III, Division 1
1691	04-28-75 01-01-78	Ultrasonic Examination in Lieu of Radiography of Repair Welds for Vessels, Section III, Class 1	1773	08-13-76 07-01-77	Use of Other Product Forms of Materials for Valves, Section III, Division 1
1698 (N-92)	06-30-75 ⁴ 11-20-78 07-13-81	Waiver of Ultrasonic Transfer Method, Section III, V, and VIII, Division 1	1777	08-13-76 07-01-77	Use of SA-106, Grade C in Class MC Construction, Section III, Division 1
Code Case 1698 was acceptable subject to the following conditions in addition to those specified in the Code Case: The material from which the basic calibration block is fabricated should be of the same product form, alloy, and heat treatment as the material being examined. Alloys of equivalent P-number grouping may be used for the fabrication of calibration blocks if adjustments to signal height can be made to compensate for sound beam attenuation difference between the calibration block and the material under examination by following the transfer method procedure of T-535.1(d), Article 5, Section V, ASME B&PV Code, 1977 edition.					
1713	08-11-75 12-31-75	Small Material Items, Section III, Division 1, Class 1, 2, 3, CS and MC	1781	09-10-76 (N-147) 07-01-78	Use of Modified SA-487 Grade CA6NM, Section III, Division 1, Class 1, 2, 3, MC or CS
1722-1 (N-107-1)	01-08-79 01-08-82	Vacuum, Carbon Deoxidized SA-508 Forgings, Section III, Division 1	1782	09-10-76 (N-148) 08-30-79 07-16-82 06-30-83	Use of Copper-Nickel Alloy 962 for Castings, Section III, Division 1, Class 3 Construction
1724 (N-108)	11-03-75 07-01-78	Deviation from the Specified Silicon Ranges in ASME Material Specifications, Section III, Division 1, and VIII, Division 1 and 2	1787	09-10-76 01-01-78	Depth of Weld Repairs for Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS Construction
1728	11-03-75 07-01-77	Steel Structural Shapes and Small Material Products for Component Supports, Section III, Division 1 Construction	1794	01-14-77 (N-157) 01-07-80 01-07-83	Use of Seamless Al-Br, Alloy CDA 614 Pipe, Section III, Division 1, Class 3
1740	12-22-75 07-01-76	Weld Metal Test, Section III, Class 1, 2, 3, MC and CS	1795	01-14-77 (N-158) 07-01-78	Examination of Weld Repairs in Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS
1741-1	01-14-77 01-01-78	Interim Rules for the Required Number of Impact Tests for Rolled Shapes, Section III, Division 1, Subsection NF, Component Supports	1798	01-14-77 01-01-78	Use of ASTM A352-75, Grades LCA and LCC, Section III, Division 1, Class 1, 2, and 3
1742	03-01-76 07-01-76	Use of SB-75 Annealed Copper Alloy 122, Section III, Division 1, Class 2 Construction	1810	03-03-77 03-03-80	Testing Lots of Carbon Steel Solid, Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS
1743	03-01-76 07-01-76	Use of SB-98 Cu-SiB Rod CDA651 Section III, Division 1, Class 2 Components	1819 ¹¹	03-23-77 01-01-78	Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, 3
1746 (N-123)	03-01-76 03-01-79	Leak Testing of Seal Welds, Section III, Division 1, Class 1, 2, and 3 Construction	1819-1 ^{12,13}	03-23-77 (N-176-1) 03-23-80 08-25-80 08-25-83	Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, and 3
1748	03-01-76	Low Carbon Austenitic Stainless			

¹¹ This Code Case was reaffirmed as Case 1819-1. See regulatory position 2 for the effective dates.

¹² Case 1819 (N-176) was annulled December 31, 1977. However, it was later reaffirmed to continue providing rules pertaining to external pressure charts.

¹³ Code Case N-176-1: The 3-23-80 is an annulment date. This Case was allowed to expire on 3-23-80 because of an administrative error. It was reinstated on 8-25-80 with no technical changes. It is, therefore, considered to be in effect during that lapse in time. The 8-25-83 is the mandatory annulment date. The Case did not appear in Revisions 18-21 of this guide because of the ASME administrative error.

1820 (N-177)	03-23-77 03-17-80 02-14-83 01-01-84	Alternative Ultrasonic Examination Technique, Section III, Division 1
N-178	05-25-77 01-01-80	Use of ASTM B271, CDA 954, Alloy 9C for Class 3 Construction, Section III, Division 1
N-180	07-11-77 07-01-78	Examination of Springs for Class 1 Component Standard Supports, Section III, Division 1
N-181	07-11-77 07-11-80	Steel Castings Refined by the Argon Decarburization Process, Section III, Division 1, Construction
N-183	07-11-77 01-01-80	Use of Modified SA-182 Grade F22 for Section III, Division 1, Class 1, 2 and 3 Construction
N-190	08-29-77 07-01-78	Use of SA-455 for Class 3 Components, Section III, Division 1
N-204	03-20-78 01-01-81	Use of Modified SA-508, Class 3, and SA-541, Class 3 for Section III, Division 1, Class 1, 2, and 3 Construction
N-206	03-20-78 03-16-81 06-30-83	Use of ASTM B151-75 Copper-Nickel Alloy 706 Rod and Bar for Section III, Division 1, Class 3 Construction
N-223	11-30-78 11-20-81	Requirements for Stainless Steel Precipitation Hardening, Section III, Division 1, Class MC
N-225	11-20-78 01-01-81	Certification and Identification of Material for Component Supports, Section III, Division 1
N-227	07-09-79 07-09-82	Examination of Repair Welds, Section III, Class 2 and 3 Tanks
N-246	07-09-79 09-07-82	Use of SB-169, Alloy CA 614, Section III, Division 1, Class 3
N-248	08-30-79 07-01-80	Alternative Reference Radiographs, Section III, Division 1, Classes 1, 2, 3, MC, and CS Construction
N-259	01-07-80 02-14-83 01-01-84	Ni-Cu-Al Bolting Material SB 164 Modified, Section III, Division 1, Class 3
N-267	01-07-80 07-01-81	Double-Wall Radiography, Section III, Division 1, Class 1 and 2
N-277	03-17-80 09-17-80	Use of Type XM-19 Austenitic Stainless Steel for Section III, Division 1, Class MC Construction
N-295	01-15-81 12-11-81 06-30-82	NCA-1140, Materials, Section III, Division 1
N-310-1	08-14-81 07-01-82	Certification of Bolting Materials, Section III, Division 1, Class 1, 2, 3, MC and CS

Code Case N-310-1 was acceptable subject to the following conditions in addition to those conditions specified in the Code Case: Each applicant who applies the Code Case should indicate in the referencing Safety Analysis Report (1) in what way the bolting does not meet NCA-3800 (or NA-3700), (2) where the bolting will be used in the plant, and (3) how it will be shown that the bolting material properties required by the Equipment Support

Design Specification are present in the actual bolting material.

N-317 07-13-81 ASTM A276 Bar Section III,
07-01-82 Division 1

3. Code Cases that were endorsed by the NRC in a prior version of this guide and were superseded by revised Code Cases on or after July 1, 1974, should be considered as not endorsed as of the date of the Council action that approved the revised version of the Code Cases. These Code Cases that are no longer endorsed are listed in the following by number, effective dates,¹⁴ and title.¹⁵

1332-6	03-09-72 01-08-79	Requirements for Steel Forgings, Section III and VIII, Division 2
1335-9	04-29-74 08-28-78	Requirements for Bolting Materials
1337-9	04-29-74 04-28-75	Special Type 403 Modified Forgings or Bars, Section III
1337-10	04-28-75 05-15-78	Special Type 403 Modified Forgings or Bars, Section III
1344-5 (N-5)	04-29-74 01-08-79 01-21-82 12-13-82	Nickel-Chromium, Age-Hardenable Alloys (Alloy X750), Section III
1358-5 (N-7)	11-03-75 01-08-79 01-21-82 12-13-82	High Yield Strength Steel, Section III, Division 1, Class 1 Vessels

Code Case 1358-5 was acceptable subject to the following condition in addition to those conditions specified in the Code Case: The information required to be developed by Note 1 in the Code Case should be provided in each referencing Safety Analysis Report.

1395-3	11-06-72 01-08-79	SA-508, Class 2 Forgings with Modified Manganese Content, Section III or Section VIII, Division 2
1407-2	06-26-72 07-01-74	Time of Examination for Class 1, 2, and 3, Section III Vessels
1414-3	11-03-75 03-01-76	High Yield Strength Cr-Mo Steel for Section III, Division 1, Class 1 Vessels

Code Case 1414-3 was acceptable subject to the following condition in addition to those conditions specified in the Code Case: The information required to be developed by Note 1 in the Code Case should be provided in each referencing Safety Analysis Report.

1414-4	03-01-76 08-09-77	High Yield Strength Cr-Mo Steel for Section III, Division 1, Class 1 Vessels
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¹⁴ Earlier date-date Code Case was approved by ASME Council; later date-date revision of Code Case was approved by ASME Council.

¹⁵ Code Cases 1334-2, 1337-7, 1344-3, 1484, 1521, and 1542, which were listed in the original issue of this guide, were revised by the ASME prior to July 1, 1974.

Code Case 1414-4 was acceptable subject to the following condition in addition to those conditions specified in the Code Case: The information required to be developed by Note 1 in the Code Case should be provided in each referencing Safety Analysis Report.

1484-1	04-29-74 11-04-74	SB-163 Nickel-Chromium-Iron Tubing (Alloy 600) at a Specified Minimum Yield Strength of 40.0 Ksi, Section III, Class 1
1484-2	11-04-74 08-13-76	SB-163 Nickel-Chromium-Iron Tubing (Alloy 600 and 690) at a Specified Minimum Yield Strength of 40.0 Ksi, Section III, Class 1
1492 ¹⁶	10-29-71 03-03-75	Post Weld Heat Treatment, Section I, III and VIII, Division 1 and 2
1557-2	12-17-73 01-08-79	Steel Products Refined by Secondary Remelting
1618	03-02-74 03-03-75	Material for Core Support Structures – Section III, Subsection NG

Code Case 1618 was acceptable subject to the following conditions in addition to those specified in the Code Case:

a. Welding of age-hardenable alloy SA-453 Grade 660 and SA-637 Grade 688 should be performed when the material is in the solution-treated condition.

b. Use of alloy ASTM A-564 Grade 631 is not acceptable on a generic basis.

1618-1	03-03-75 03-01-76	Material for Core Support Structures Section III, Subsection NG
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Code Case 1618-1 was acceptable subject to the following condition in addition to those specified in the Code Case: Welding of age-hardenable alloy SA-453 Grade 660 and SA-637 Grade 688 should be performed when the material is in the solution-treated condition.

1618-2	03-01-76 01-08-79 01-21-82 05-25-83	Material for Core Support Structures – (N-60) Section III, Division 1, Subsection NG
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Code Case 1618-2 was acceptable subject to the following condition in addition to those conditions specified in the Code Case: Welding of age-hardenable alloy SA-453 Grade 660 and SA-637 Grade 688 should be performed when the material is in the solution-treated condition.

1626	03-02-74 01-08-79	Normalized and Tempered 1-1/4 Cr Low Alloy Steel Forgings, Section I, Section III, and Section VIII, Division 1 and 2
1634	07-01-74 08-12-74	Use of SB-359 for Section III, Class 3 Construction
1634-1	08-12-74 08-13-76	Use of SB-359 for Section III, Class 3 Construction

¹⁶ Code Case 1492 is no longer listed by ASME as a Section III Code Case and is therefore deleted from the acceptable listing.

1644	08-12-74 04-28-75	Additional Materials for Component Supports – Section III, Subsection NF, Class 1, 2, 3, and MC Construction
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Code Case 1644 was acceptable subject to the following condition in addition to those conditions specified in the Code Case: The maximum measured ultimate tensile strength of the component support material should not exceed 170 Ksi.

1644-1	04-28-75 06-30-75	Additional Materials for Component Support – Section III, Subsection NF, Class 1, 2, 3, and MC Construction
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Code Case 1644-1 was acceptable subject to the following condition in addition to those conditions specified in the Code Case: The maximum measured ultimate tensile strength of the component support material should not exceed 170 Ksi.

1644-2	06-30-75 11-03-75	Additional Materials for Component Supports – Section III, Subsection NF, Class 1, 2, 3 and MC Construction
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Code Case 1644-2 was acceptable subject to the following condition in addition to those conditions specified in the Code Case: The maximum measured ultimate tensile strength of the component support material should not exceed 170 Ksi.

1644-3	11-03-75 03-01-76	Additional Materials for Component Supports – Section III, Subsection NF, Class 1, 2, 3 and MC Construction
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Code Case 1644-3 was acceptable subject to the following condition in addition to those conditions specified in the Code Case: The maximum measured ultimate tensile strength of the component support material should not exceed 170 Ksi.

1644-4	03-01-76 08-13-76	Additional Materials for Component Supports and Alternate Design Requirements for Bolted Joints, Section III, Division 1, Subsection NF, Class 1, 2, 3 and MC Construction
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Code Case 1644-4 was acceptable subject to the following conditions in addition to those specified in the Code Case: The maximum measured ultimate tensile strength (UTS) of the component support material should not exceed 170 Ksi in view of the susceptibility of high-strength materials to brittleness and stress corrosion cracking. Certain applications may exist where a UTS value of up to 190 Ksi could be considered acceptable for a material and, under this condition, the Design Specification should specify impact testing for the material. For these cases, it should be demonstrated by the applicant that (1) the impact test results for the material meet code requirements and (2) the material is

not subject to stress corrosion cracking by virtue of the fact that (a) a corrosive environment is not present and (b) the component that contains the material has essentially no residual stresses or assembly stresses, and it does not experience frequent sustained loads in service.

1644-5 08-13-76 Additional Materials for Component
 03-03-77 Supports and Alternate Design
 Requirements for Bolted Joints,
 Section III, Division 1, Subsection NF,
 Class 1, 2, 3 and MC Construction

Code Case 1644-5 was acceptable subject to the following conditions in addition to those specified in the Code Case: The maximum measured ultimate tensile strength (UTS) of the component support material should not exceed 170 Ksi in view of the susceptibility of high-strength materials to brittleness and stress corrosion cracking. Certain applications may exist where a UTS value of up to 190 Ksi could be considered acceptable for a material and, under this condition, the Design Specification should specify impact testing for the material. For these cases, it should be demonstrated by the applicant that (1) the impact test results for the material meet code requirements and (2) the material is not subject to stress corrosion cracking by virtue of the fact that (a) a corrosive environment is not present and (b) the component that contains the material has essentially no residual stresses or assembly stresses, and it does not experience frequent sustained loads in service.

1644-6 03-03-77 Additional Materials for Component
 11-21-77 Supports and Alternate Design
 Requirements for Bolted Joints,
 Section III, Division 1, Subsection
 NF, Class 1, 2, 3 and MC Construc-
 tion

Code Case 1644-6 was acceptable subject to the following conditions in addition to those specified in the Code Case: The maximum measured ultimate tensile strength (UTS) of the component support material should not exceed 170 Ksi in view of the susceptibility of high-strength materials to brittleness and stress corrosion cracking. Certain applications may exist where a UTS value of up to 190 Ksi could be considered acceptable for a material and, under this condition, the Design Specification should specify impact testing for the material. For these cases, it should be demonstrated by the applicant that (1) the impact test results for the material meet code requirements and (2) the material is not subject to stress corrosion cracking by virtue of the fact that (a) a corrosive environment is not present and (b) the component that contains the material has essentially no residual stresses or assembly stresses, and it does not experience frequent sustained loads in service.

1644-7 11-21-77 Additional Materials for Component
(N-71-7) 05-15-78 Supports, Section III, Division 1,

Subsection NF, Class 1, 2, 3 and
MC Component Supports

Code Case 1644-7 was acceptable subject to the following conditions in addition to those specified in the Code Case: The maximum measured ultimate tensile strength (UTS) of the component support material should not exceed 170 Ksi in view of the susceptibility of high-strength materials to brittleness and stress corrosion cracking. Certain applications may exist where a UTS value of up to 190 Ksi could be considered acceptable for a material and, under this condition, the Design Specification should specify impact testing for the material. For these cases, it should be demonstrated by the applicant that (1) the impact test results for the material meet code requirements and (2) the material is not subject to stress corrosion cracking by virtue of the fact that (a) a corrosive environment is not present and (b) the component that contains the material has essentially no residual stresses or assembly stresses, and it does not experience frequent sustained loads in service.

1644-8 05-15-78 Additional Materials for Component
(N-71-8) 01-07-80 Supports, Section III, Division 1,
 Subsection NF, Class 1, 2, 3 and
 MC Component Supports

Code Case 1644-8 was acceptable subject to the following conditions in addition to those specified in the Code Case: The maximum measured ultimate tensile strength (UTS) of the component support material should not exceed 170 Ksi in view of the susceptibility of high-strength materials to brittleness and stress corrosion cracking. Certain applications may exist where a UTS value of up to 190 Ksi could be considered acceptable for a material and, under this condition, the Design Specification should specify impact testing for the material. For these cases, it should be demonstrated by the applicant that (1) the impact test results for the material meet code requirements and (2) the material is not subject to stress corrosion cracking by virtue of the fact that (a) a corrosive environment is not present and (b) the component that contains the material has essentially no residual stresses or assembly stresses, and it does not experience frequent sustained loads in service.

1644-9 01-07-80 Additional Materials for Component
(N-71-9) 05-11-81 Supports Fabricated by Welding,
 Section III, Division 1, Subsection
 NF, Class 1, 2, 3, and MC Compo-
 nent Supports

Code Case 1644-9 was acceptable subject to the following condition in addition to those conditions specified in the Code Case: In the last sentence of paragraph 5.3, reference should be made to paragraph 4.5.2.2, "Alternate Atmosphere Exposure Time Periods Established by Test," of the AWS D.1.1 Code for the evidence presented to and accepted by the Authorized Inspector concerning exposure of electrodes for longer periods of time.

N-71-10 05-11-81 Additional Materials for Component
06-17-82 Supports Fabricated by Welding,
Section III, Division 1, Subsection
NF, Class 1, 2, 3, and MC Compo-
nent Supports

Code Case N-71-10 was acceptable subject to the follow-
ing conditions in addition to those conditions specified
in the Code Case: The maximum measured ultimate
tensile strength (UTS) of the component support mate-
rial should not exceed 170 Ksi in view of the susceptibil-
ity of high-strength materials to brittleness and stress
corrosion cracking. Certain applications may exist where
a UTS value of up to 190 Ksi could be considered
acceptable for a material and, under this condition, the
Design Specification should specify impact testing for
the material. For these cases, it should be demonstrated
by the applicant that (1) the impact test results for the
material meet code requirements and (2) the material is
not subject to stress corrosion cracking by virtue of the
fact that (a) a corrosive environment is not present and
(b) the component that contains the material has essen-
tially no residual stresses or assembly stresses, and it does
not experience frequent sustained loads in service. In
the last sentence of paragraph 5.3, reference should be
made to paragraph 4.5.2.2, "Alternate Atmosphere
Exposure Time Periods Established by Test," of the
AWS D.1.1 Code for the evidence presented to and
accepted by the Authorized Inspector concerning expo-
sure of electrodes for longer periods of time.

N-71-11 06-17-82 Additional Materials for Component
02-14-83 Supports Fabricated by Welding, Sec-
tion III, Division 1, Subsection NF,
Class 1, 2, 3, and MC Component
Supports

Code Case N-71-11 was acceptable subject to the following
conditions in addition to those conditions specified in
the Code Case: The maximum measured ultimate tensile
strength (UTS) of the component support material should
not exceed 170 Ksi in view of the susceptibility of high-
strength materials to brittleness and stress corrosion crack-
ing. Certain applications may exist where a UTS value of
up to 190 Ksi could be considered acceptable for a mate-
rial and, under this condition, the Design Specification
should specify impact testing for the material. For these
cases, it should be demonstrated by the applicant that (1)
the impact test results for the material meet code require-
ments and (2) the material is not subject to stress corro-
sion cracking by virtue of the fact that (a) a corrosive
environment is not present and (b) the component that
contains the material has essentially no residual stresses
or assembly stresses, and it does not experience frequent
sustained loads in service. In the last sentence of para-
graph 5.3, reference should be made to paragraph 4.5.2.2,
"Alternate Atmosphere Exposure Time Periods Established
by Test," of the AWS D.1.1 Code for the evidence pre-
sented to and accepted by the Authorized Inspector con-
cerning exposure of electrodes for longer periods of time.

1682 01-29-75 Alternate Rules for Material Manu-

08-11-75 facturers and Suppliers, Section III,
Subarticle NA-3700

1714 08-11-75 Postweld Heat Treatment of P-1
07-11-77⁴ Material, Section III, Class MC
1714-1 07-11-77⁴ Postweld Heat Treatment of P-1
(N-102-1) 08-28-78 Material, Section III, Class MC
1722 11-03-75 Vacuum, Carbon Deoxidized SA-508
01-08-79 Forgings, Section III, Division 1, and
VIII, Division 1 and 2
1741 12-22-75 Interim Rules for the Required
01-14-77 Number of Impact Tests for Rolled
Shapes, Section III, Division 1,
Subsection NF, Component Supports
1755 04-26-76 Alternative Rules for Examination
01-14-77 of Welds in Piping, Class 1 and 2
Construction, Section III, Division 1
1759 08-13-76 Material for Internal Pressure Ret-
05-15-78 taining Items for Pressure Relief
Valves, Section III, Division 1, Class
1, 2, and 3

Code Case 1759 was acceptable subject to the following
condition in addition to those conditions specified in the
Code Case: Applicants using this Case should also use
Code Case 1711 for the design of pressure relief valves.

N-188 08-29-77 Use of Welded Ni-Fe-Cr-Mo-Cu
05-15-78 (Alloy 825) and Ni-Cr-Mo-Cb (Al-
loy 625) Tubing, Section III, Divi-
sion 1, Class 3
N-207 03-20-78 Use of Modified SA-479 Type
03-19-79 XM-19 for Section III, Division 1,
Class 1, 2 or 3 Construction
N-224 11-20-78 Use of ASTM A500 Grade B and
05-11-81 ASTM A501 Structural Tubing for
Welded Attachments for Section III,
Class 2 and 3 Construction
N-242 04-12-79 Materials Certification, Section III,
04-10-80 Division 1, Classes 1, 2, 3, MC, and
CS Construction

Code Case N-242 was acceptable subject to the follow-
ing condition in addition to those conditions specified in
the Code Case: Applicants should identify the compo-
nents and supports requiring the use of paragraphs 1.0
through 4.0 of the Code Case in their Safety Analysis
Reports.

N-246-1 09-07-82 SB-169, Alloy C61400, Section III,
05-25-83 Division 1, Class 3
N-249 01-07-80 Additional Materials for Compo-
05-11-81 nent Supports Fabricated With-
out Welding, Section III, Divi-
sion 1, Subsection NF, Class 1,
2, 3 and MC Component Supports

Code Case N-249 was acceptable subject to the follow-
ing condition in addition to those conditions specified
in the Code Case: Footnote 2 of the Code Case should
apply to all materials listed in Tables 1, 2, 3, 4, and 5
of the Code Case and should be so indicated on line 5
of the "Reply."

N-249-1 05-11-81 Additional Materials for Component Supports Fabricated Without Welding, Section III, Division 1, Subsection NF, Class 1, 2, 3, and MC Component Supports
06-17-82

Code Case N-249-1 was acceptable subject to the following condition in addition to those conditions specified in the Code Case: Paragraph 7 of the "Reply" should reference the requirements of NF-2600 instead of NF-2800. This is a typographical error in that NF-2800 does not exist.

N-249-2 06-17-82 Additional Materials for Subsection
02-14-83 NF Class 1, 2, 3, and MC Component Supports Fabricated Without Welding, Section III, Division 1

4. Code Cases for Class 1 components that are not on the approved list of this guide (paragraph C.1) or other regulatory guides, or for which authorization by the Commission has not been granted, are not acceptable for Class 1 components.

5. Code Cases for other classes of components that are not on the approved list of this guide (paragraph C.1) or other regulatory guides should be considered not acceptable on a generic basis.

D. IMPLEMENTATION

The purpose of this section is to provide information to applicants regarding the use of this regulatory guide.

1. Except for those Code Cases that have been annulled by action of the ASME Council, the NRC staff has found the Code Cases listed in this regulatory guide under regulatory position C.1 acceptable for appropriate use. Other Code Cases may be considered for use in accordance with footnote 6 of the Codes and Standards rule, §50.55a of 10 CFR Part 50.

2. Components ordered to a specific version of a Code Case need not be changed because a subsequent revision of the Code Case is listed as the approved version in this guide.

3. Components ordered to a Code Case that was previously approved for use need not be changed because the Code Case has been subsequently annulled.

4. Code Cases on the approved list may be applied to components that were in process of construction prior to the effective date of the Code Case within the limits specified in the Code Case and applicable regulations or recommended in other regulatory guides.

APPENDIX

NUMERICAL LISTING OF CODE CASES*

1335-10 (N-3-10)	1755-1 (N-127)	N-298
1337-11 (N-4-11)	1759-1 (N-131-1)	N-299
N-5-1	1772 (N-140)	N-321
N-7-1	1793 (N-156)	N-329
1407-3 (N-10)	N-188-1	N-337
1474-1 (N-17)	N-205	N-342
1484-3 (N-20)	N-207-1	N-348
1527 (N-26)	N-224-1	N-351
1542-1 (N-33)	N-242-2	N-352
1571 (N-41)	N-245	N-353
N-60-1	N-246-2	N-367
1626-1 (N-65-1)	N-249-3	N-370
N-71-12	N-265	N-371
1714-2 (N-102-2)	N-274	N-372
1747 (N-124)	N-294	N-379
1754 (N-126)	N-296	N-388

*Code Case 1624 was inadvertently listed in the appendix of Regulatory Guide 1.85, Revision 1.

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NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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