

December 1980 U.S. NUCLEAR REGULATORY COMMISSION GULATORY GUIDE OFFICE OF STANDARDS DEVELOPMENT

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

USNRC REGULATORY GUIDES

Regulatory Guldes 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 regulated. Methods and solutions different from those set out in the guides will be acceptable if they provide a basis for the findings regulates to the issuance or continuance of a permit or license by the Commission.

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. This guide was revised as a result of subtantive com-ments received from the public and additional staff review.

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

Revision 17

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.

B. DISCUSSION

The Boiler and Pressure Vessel Committee of the ASME publishes a document entitled "Code Cases." Generall, 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 in effect on March 17, 1980, were reviewed for inclusion in this guide. In addition to the listing of acceptable Code Cases, this revision of the guide includes listings

Lines indicate substantive changes from Revision 16.

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
 6. Products

 2. Research and Test Reactors
 7. Transportation

 3. Fuels and Materials Facilities
 8. Occupational Health

 4. Environmental and Siling
 9. Antifrust and Financial Review

 5. Materials and Plant Protection
 10. General

Copies of issued guidos may be purchased at the current Government Printing Office price. A subscription service for future guides in spe-cific 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.



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

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:

11-03-75 High Yield Strength Steel, Section III 1358-5

Code Case 1358-5 is acceptable subject to the following condition in addition to those conditions specified in

²A numerical listing of the Code Cases appears in the appendix. ³When two dates are given, the earlier date is that on which the Code Case was approved by the ASME Council and the later date is that on which the Code Case was reaffirmed by the ASME Council. 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.

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

Code Case 1414-5 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 01-08-79 Carbon Steel Fittings, Section III

(2) Code Cases involving pipe and tubes:

1474-1	10-29-71	Integrally Finned Tubes for Section				
	01-08-79	111				

1484-3 08-13-76 SB-163 Nickel-Chromium-Iron Tub-08-30-79 ing (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

Code Case 1484-3 is acceptable subject to the following condition in addition to those conditions specified in the Code Case: Alloy 690 is not acceptable on a generic basis.

1527	06-26-7 <i>2</i> 4	Integrally Finned Tubes, Section
	01-08-79	III
1578	06-25-73	SB-167 Nickel-Chromium-Iron (Alloy
	01-08-79	600) Pipe or Tube, Section III
1794	01-14-77	Use of Scamless Al-Br, Alloy CDA
	01-07-80	614 Pipe, Section III, Division 1, Class 3
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
N-224	11-20-78	Use of ASTM A500 Grade B and ASTM A501 Structural Tubing for Welded Attachments for Section III, Class 2 and 3 Construction
(3) Code Ca	ases involving bars and forgings:
1332-7	01-08-79	Requirements for Steel Forgings, Section III, Division 1
1334-3	04-29-74	Requirements for Corrosion-Resisting
	01-08-79	Steel Bars and Shapes, Section III
1335-10	08-28-78	Requirements for Bolting Materials,

Section III 05-15-78 Special Type 403 Modified Forgings or Bars, Section III, Division 1, Class 1 and CS

Corrected date.

(N-3-10)

1337-11

(N-4-11)

1.1			
· ·	1395-4	01-08-79	SA-508, Clase 2 Forgings with Modi-
_	(N-9-4)		fied Manganese Content, Section III
	1498-1	11-06-72	SA-508-Class 2 and 3, Minimum
		01-08-79	Tempering Temperature, Section III
	1542-1	04-29-74	Type 403 Forgings or Bars for
		01-08-79	Bolting Material, Section III
	1626-1	01-08-79	Normalized and Tempered 1-1/4 Cr
. •	(N-65-1)		Low Alloy Steel Forgings, Section 1 and Section III
	1722-1	01-08-79	Vacuum, Carbon Deoxidized SA-508
	(N-107-1)		Forgings Section III, Division 1
	1747	03-01-76	Requirements for Martensitic Stain-
		01-08-79	less Steel Forgings with 13% Chro-
:			mium and 4% Nickel, Section III,
	•		Division 1
	1772	08-13-76	Use of SA-453 Bolts in Service
	· .	08-30-79	Below 800°F Without Stress Rup-
			ture Tests, Section III, Division 1
	1793	01-14-77	Structural Steel Rolled Shapes, Sec-
l		01-07-80	tion III, Division 1, Class 2, 3, and MC
	N-204	03-20-78	Use of Modified SA-508, Class 3,
			and SA-541, Class 3 for Section III,
			Division 1, Class 1, 2 and 3 Con-
	·		struction
	N-259	01-07-80	Ni-Cu-Al Bolting Material SB 164
			Modified, Section III, Division 1,
			Class 3
	(4	 Code Cas 	es involving general usage:
	1344-5	04-274	Nickel-Chromium, Age-Hardenable
		01-08-79	Alloys, (Alloy X750) Section III
	1557-3	01-08-79	Steel Products Refined by Secondary
	(N-37-3)		Remelting, Section III and VIil,

1618-2

Division 1 and 2 03-01-76 Material for Core Support Struc-01-08-79 tures – Section III, Division 1, Subsection NG

Code Case 1618-2 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.

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

Code Case 1644-9 is 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.

1714-2	08-28-78	Postweid	Heat T	reatm	ent of	P-1
(N-102-2)	•	Material,	Section	III,	Class	MC

01-14-77	Hard Surfacing by the Spray-Fuse
01-07-80	Method, Section III, Class 1, 2 and
	3 Construction
	Material for Internal Pressure Retain- ing Items for Pressure Relief Valves,
	Section III, Division 1, Class 1, 2, and 3
	01-07-80 05-15-78

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.

1782	09-10-76	Use of Copper-Nickel Alloy 962 for
	08-30-79	Castings, Section III, Division 1,
		Class 3 Construction
N-205	05-15-78	Use of Ductile Iron SA-395 for
		Section 111, Division 1, Class 3
		Construction
N-206	03-20-78	Use of ASTM B151-75 Copper-Nickel
		Alloy 706 Rod and Bar for Section
		III, Division 1, Class 3 Construction
N-207-1	03-19-79	Use of Modified SA-479 Type XM-19
		for Section III, Division 1, Class 1,
•		2, 3, or CS Construction
N-223	11-30-78	Requirements for Stainless Steel -
		Precipitation Hardening, Section III,
		Division 1, Class MC
N-225	11-20-78	Certification and Identification of
		Material for Component Supports,
		Section III, Division 1
N-242	04-12-79	Materials Certification, Section III,
		Division 1, Classes 1, 2, 3, MC, and
		CS Construction

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

N-245	07-09-79	Use of ASTM B61-76 and B62-76 Copper Alloy Castings for Section III, Division 1, Class 3 Construction
N-246	07-09-79	Use of SB-169, Alloy CA 614, Sec-
•• •	· .	tion III, Division 1, Class 3
N-249	01-07-80	Additional Materials for Component Supports Fabricated Without Weld- ing, Section III, Division 1, Subsec-
		tion NF, Class 1, 2, 3 and MC Com- ponent Supports

Code Case N-249 is acceptable subject to the following 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-265 01-07-80 Modified SA-487 Castings, Section III, Division 1, Class 1

N-277	03-17-80	Use of	Туре	XM-19	Austenitic
1 a 1		Stainless	Steel	for S	ection III,
		Division	1, Clas	s MC C	onstruction

b. Testing-oriented Code Cases:

(1) Code Cases involving plates:

1407-3	07-01-74	Time of Examination for Classes 1,
• •	01-08-79	2, and 3 Section III Vessels
N-227	07-09-79	Examination of Repair Welds, Sec-
		tion III, Class 2 and 3 Tanks

(2) Code Case involving bars and forgings:

(Code Cases will be added as needed.)

(3) Code Case involving pipe and tubes:

1755-1 01-14-77 Alternative Rules for Examination 01-07-80 of Welds in Piping, Section III, Class 1 and 2 Construction

(4) Code Cases involving general usage:

1698 (N-92) 06-30-75⁴ Waiver of Ultrasonic Transfer Meth-11-20-78 od, Section III, V, and VIII, Division 1

Code Case 1698 is 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 or should be shown to have the same sound beam attenuation characteristics 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.

03-23-77	Alternative Ultrasonic Examination
03-17-80	Technique, Section III, Division 1
08-30-79	Alternative Reference Radiographs,
	Section III, Division 1, Classes 1, 2,
	3, MC, and CS Construction
01-07-80	Double-Wall Radiography, Section III,
	Division 1, Class 1 and 2
03-17-80	Alternative Rules for Examination
	of Weld Repairs for Section III,
	Division 1 Construction
	03-17-80 08-30-79 01-07-80

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

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,⁵ and title.⁶

1141-1	08-31 61 07-23-76	Foreign Produced Steel
1345-2	03-09-72	Requirements for Nickel-Molybde-
(N-6)	03-01-79	num-Chromium-Iron Alloys, Sec- tion III
1412-4	11-03-75 01-01-77	Modified High Yield Strength Steel for Section 111, 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.

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 Stee! Weld Metal," and 1.44, "Control of the Use of Sensitized Stainless Stee!."

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 Exami-
(N-15)	03-01-79	nation for Progressive Penetrant or
		Magnetic Particle Examinations of
		Partial Penetration and Oblique
		Nozzle Attachment Welds, Section III
1475-1 ⁷	03-02-74	Ferritic-Austenitic Stainless Steel
•	07-01-75	Seamless Tubes for Section III,
·	•	Class 2 and 3 Construction
1515	03-09-72	Ultrasonic Examination of Ring
	07-01-77	Forgings for Shell Sections, Section
	•.	III, Class 1 Vessels

^SEarlier 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.

⁶Code 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.



1.85-4

		• . • •		· .		
	1521-1	04-29-74 01-01-78	Use of H-Grades of SA-240, SA-479, SA-336, and SA-358, Section III	1616 ⁷	12-17-73 07-01-75	Ultrasonic Examination of Seamless Austenitic Steel Pipe, Section III, Class 1 Construction
	Code	Case 1521-1	was acceptable subject to compliance	16227	03-02-74	PWHT of Repair Welds in Carbon
	with	the recomm	endations contained in Regulatory		01-01-76	Steel Castings, Section III, Class 1,
	Steel	Wold Motol	trol of Ferrite Content in Stainless			2, and 3
· · ·	Sensit	ized Stainless	' and 1.44, "Control of the Use of Steel"	1625	03-02-74	Repair of Section III Class 2 and 3
	oonar		Sicci.	1634-2	12-31-74 08-13-76	Tanks Use of SB-359 for Section III,
	1528-3	11-03-75	High Strength Steel SA-508, Class 2	(N-68)	07-01-78	Division 1, Class 3 Construction
		01-01-78	and SA-541, Class 2 Forgings, Sec-	1637 ⁸	04-29-74	Effective Date for Compliance with
			tion III, Class 1 Components		01-01-75	NA-3700 of Section III
				1645 ⁷	08-12-74	Use of DeLong Diagram for Calcu-
	Code	Case 1528-3	was acceptable subject to the follow-		01-01-76	lating the Delta Ferrite Content of
			dition to those conditions specified in in information required to be developed			Welds in Section III, Class 1, 2, and CS Construction
			code Case should be provided in each	1648	08-12-74	SA-537 Plates for Section III, Class 1,
	refere	ncing Safcty A	Analysis Report.	_	07-01-76	2, 3, and MC Components
				1649 ⁷	08-12-74	Modified SA 453-GR 660 for Class 1,
•	1529 ⁷	06-29-72	Materials for Instrument Line Fit-		01-01-76	2, 3, and CS Construction
	1	07-01-73	tings, Section III	1650	08-12-74	Use of SA-414 Grade C for Class 2
. *	1531	08-14-72	Electrical Penetrations, Special Al-		12-31-74	and 3 Components, Section III,
•		03-21-77	loys for Electrical Penetration Seals, Section III	1444	110474	Division 1
	1532	08-14-72	Section III, Class 3 Components Made	1664	11-04-74 03-21-77	Use of Cr-Ni-Fe-Mo-Cu-Cb, Stabilized
	1352	01-01-78	of 8 Percent and 9 Percent Nickel		03-21-77	Alloy Cb-3 for Section III Class 2 and 3 Construction
			Steel	1666	11-04-74	Use of SB-12, Alloy 122 for Sec-
	1567	03-03-73	Testing Lots of Carbon and Low		07-01-75	tion III, Class 2 and 3 Construction
		01-01-78	Alloy Steel Covered Electrodes,	1682-1	08-11-75	Alternate Rules for Material Manu-
			Section III		12-31-75	facturers and Suppliers, Section III,
	1568	03-03-73	Testing Lots of Flux Cored and Fab-			Subarticle NA-3700
		01-01-78	ricated Carbon and Low Alloy Steel	1684 ⁷	03-03-75	A637 Grade 718 for Bolting Class 1
			Welding, Electrodes, Section III	-	01-01-76	and 2 Construction
•	1583	06-25-73	Use of 80-40 Carbon Steel Castings,	1690 ⁷	04-28-75	Stock Materials for Section III Con-
	1007	03-21-77	Section III		01-01-77	struction, Section III, Division 1
	15877	08-13-73 12-31-75	SA-508 Class 3 Forgings with 0.4/1.0	1691	04-28-75	Ultrasonic Examination in Lieu of
		12-31-73	Ni for Section III and VIII, Division 2 Construction		01-01-78	Radiography of Repair Welds for
	1590	08-13-73	Chemical Analysis Variations, Sec-	1713	08-11-75	Vessels, Section III, Class 1 Small Material Items, Section III,
·	1370	03-21-77	tion III Construction	1/15	12-31-75	Division 1, Class 1, 2, 3, CS and MC
	1602-1	04-29-74	Use of SB-42 Alloy 122, SB-111	1724	11-03-75	Deviation from the Specified Silicon
		12-31-74	Alloys 122, 715 and 706, SB-171	(N-108)	07-01-78	Ranges in ASME Material Specifica-
			Alloys 715 and 706 and SB-466			tions Section III, Division 1, and
			Alloys 706 and 715, Section III,			VIII, Division 1 and 2
			Class 2 and 3 Components	1728	11-03-75	Steel Structural Shapes and Small
	1603	12-17-73	Toughness Tests When Cross-Section		07-01-77	Material Products for Component
	ан 1	07-01-74	Limits Orientation and Location of			Supports, Section III, Division 1
· · ·	Licor	11.05.20	Specimens			Construction
	1605	11-05-73	Cr-Ni-Mo-V Bolting Material for	1740	12-22-75	Weld Metal Test, Section III, Class 1,
		11-20-78	Section III, Class 1 Components	1741 1	07-01-76	2, 3, MC and CS
. 1	1608-1	03-17-80	Use of ASME SB-265, SB-337, SB-338,	1741-1	01-14-77	Interim Rules for the Required
	1000-1	03-21-77	SB-348, and SB-381, Grades 1, 2, 3,		01-01-78	Number of Impact Tests for Rolled Shapes, Section III, Division I,
• •			and 7 Unalloyed Titanium and ASTM	• * · ·		Subsection NF, Component Supports
· .	N. Alex	· · · ·	B-363 Titanium Welding Fittings,	1742	03-01-76	Use of SB-75 Annealed Copper
· · ·	•		Section III Class 2 and 3 Components		07-01-76	Alloy 122, Section III, Division 1,
	1612	12-17-73	Use of Type 308 Stainless Steel			Class 2 Construction
et solo e g G	(N-56)	07-01-78	Rod and Bar for Section III, Class	1743	03-01-76	Use of SB-98 Cu-SiB Rod CDA651
			1, 2, 3, and CS Construction		07-01-76	Section III, Division 1, Class 2
	1613	12-17-73	Use of SA-372 Class IV Forgings,	• • • •		Components
		01-01-78	Section III Construction			
	1615	12-17-73	Use of A587-73, Section III, Class 3	•		•
		01-01-78	Construction	^D Code	Case 1637 has	been accepted only on a case-by-case basis.

1.85-5

 1746 03-01-76 Leak Testing of Seal Welds, Sec (N-123) 03-01-76 tion III, Division 1, Class 1, 2, and 3 Construction 1748 03-01-76 Low Carbon Austenitic Stainless (N-125) 07-01-78 Steel Pipe Welded With Filler Metal, Section III, Division 1, Construction Maximum Dimensions for Isolated 01-01-78 Testing Requirements for Welding 07-01-77 Materials, Class 1, 2, 3, MC and CS Construction, Section III, Division 1 1760 04-26-76 Testing Requirements for Welding 07-01-77 Without Filler Metal-Class 1 Construction, Section III, Division 1 1760 04-26-76 Examination of Tubular Products 01-01-77 Without Filler Metal-Class 1 Construction, Section III, Division 1 1760 08-13-76 Testing of Electroslag Wire and 01-01-79 Fills for Class 1, 2, 3, MC and CS Construction, Section III, Division 1 1770 08-13-76 Use of Other Product Forms of 07-01-77 Material: for Valves, Section III, Division i 1777 08-13-76 Use of SA-106, Grade C in Class 07-01-77 MC Construction, Section III, Division 1, Class 1, 2, 3, MC and CS Construction 1781 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section III, Division 1, Class 1, 2, 3, MC and CS Construction 1795 01-14-77 Use of ASTM A352-75, Grades 01-01-78 Ection III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of Type XM-19 for Construction, 1, Class 1, 2, 3, MC, and CS 1819 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3 1819 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-77 Use of Type XM-19 for Const			
 (N-123) 03-01-79 tion III, Division I, Class I, 2, and 3 Construction 1748 03-01-76 Low Carbon Austenitic Stainless (N-125) 07-01-78 Steel Pipe Welded With Filler Metal, Section III, Division 1, Construction 1760 04-26-76 Maximum Dimensions for Isolated 01-01-78 Steel Pipe Welds-Class I Components, Section III, Division 1 1766 04-26-76 Testing Requirements for Welding 07-01-77 Materials, Class 1, 2, 3, MC and CS Construction, Section III, Division 1 1767 04-26-76 Examination of Tubular Products 01-01-77 Without Filler Metal-Class 1 Construction, Section III, Division 1 1770 08-13-76 Testing of Electroslag Wire and (N-139) 01-01-79 Flux for Class 1, 2, 3, MC, and CS Construction, Section III, Division 1 1773 08-13-76 Use of Other Product Forms of 07-01-77 Material: for Valves, Section III, Division 1 1777 08-13-76 Use of SA-106, Grade C in Class 07-01-77 Material: for Valves, Section III, Division 1 1781 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section III, Division 1, Class 1, 2, 3, MC or CS 1787 09-10-76 Depth of Weld Repairs for Forgings, 01-01-78 Examination of Weld Repairs in (N-158) 07-01-78 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, 3, MC and CS 1819⁹ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, 3 1819¹⁰ 03-23-77 Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, 3 1819¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, 3 1819¹⁰ 03-23-77 Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, 3 1819¹⁰ 03-23-77 Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, 3 1819-1¹⁰ 03-23-77 U	1746	03-01-76	Leak Testing of Seal Welds, Sec-
 3 Construction 1748 03-01-76 Low Carbon Austenitic Stainless Steel Pipe Welded With Filler Metal, Section III, Division 1, Construction 1760 04-26-76 Maximum Dimensions for Isolated 01-01-78 Pores in Welds-Class I Components, Section III, Division 1 1766 04-26-76 Testing Requirements for Welding 07-01-77 Materials, Class 1, 2, 3, MC and CS Construction, Section III, Division 1 1767 04-26-76 Testing Requirements for Welding 07-01-77 Without Filler Metal-Class I Construction, Section III, Division 1 1767 04-26-76 Testing of Electroslag Wire and 01-01-79 Without Filler Metal-Class I Construction, Section III, Division 1 1770 08-13-76 Testing of Electroslag Wire and (N-139) 01-01-79 Without Filler Metal-Class I Construction, Section III, Division 1 1773 08-13-76 Use of Other Product Forms of 07-01-77 Materials for Valves, Section III, Division i 1777 08-13-76 Use of SA-106, Grade C in Class 07-01-77 MC Construction, Section III, Division 1 1781 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section III, Division 1, Class 1, 2, 3, MC and CS 1787 09-10-76 Depth of Weld Repairs for Forgings, 01-01-78 Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Examination of Weld Repairs in (N-158) 07-01-78 Forging, Section III, Division 1, Class 1, 2, 3, MC and CS 1819⁹ 03-23-77 Use of ASTM A352-75, Grades 01-01-78 toc, Section III, Division 1, Class 1, 2, 3 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3 1819-1¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of Type XM-19 for Class 1, 2, and 3 N-178 07-11-77 Examination of Springs for Class 1, 07-01-78 Component Standard Supports, Section III, Division 1 N-180 07-11-77 Examination of Springs for Class 1, 07-01-78 Component Standard Supports, S	(N-123)	03-01-79	
 (N-125) 07-01-78 Steel Pipe Welded With Filler Metal, Section III, Division 1, Construction Maximum Dimensions for Isolated 01-01-78 Pores in Welds-Class I Components, Section III, Division 1 1766 04-26-76 Testing Requirements for Welding 07-01-77 Materials, Class 1, 2, 3, MC and CS Construction, Section III, Division 1 1767 04-26-76 Examination of Tubular Products 01-01-77 Without Filler Metal-Class 1 Con- struction, Section III, Division 1 1770 08-13-76 Testing of Electroslag Wire and (N-139) 01-01-79 Flux for Class 1, 2, 3, MC, and CS Construction, Section III, Division 1 1773 08-13-76 Use of Other Product Forms of 07-01-77 Materials for Valves, Section III, Division i 1777 08-13-76 Use of SA-106, Grade C in Class 07-01-77 MC Construction, Section III, Division 1 1781 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section III, Division 1, Class 1, 2, 3, MC or CS 1787 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 Ection III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, 3, MC and CS 1819 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819⁹ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, 3, MC, and CS 1819⁹ 03-23-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 Section III, Division 1, Class 1, 2, and 3 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-180 07-11-77 Steel Casting Refined by the Argon 07-01-80 for Section III, Division 1, Class 1 N-181 07-11-77 Steel Casting Refined			
 Section III, Division 1, Construction Maximum Dimensions for Isolated Od-26-76 Maximum Dimensions for Isolated Od-26-76 Testing Requirements for Welding Of-01-77 Materials, Class 1, 2, 3, MC and CS Construction, Section III, Division 1 Od-26-76 Examination of Tubular Products O1-01-77 Without Filler Metal-Class 1 Construction, Section III, Division 1 Od-26-76 Testing of Electroslag Wire and (N-139) Ol-01-77 Flux for Class 1, 2, 3, MC, and CS Construction, Section III, Division 1 O8-13-76 Use of Other Product Forms of O7-01-77 Materials for Valves, Section III, Division 1 O8-13-76 Use of Other Product Forms of O7-01-77 Materials for Valves, Section III, Division 1 Division 1 Use of SA-106, Grade C in Class O7-01-77 Mc Construction, Section III, Division 1, Class 1, 2, 3, MC and CS O9-10-76 Depth of Weld Repairs for Forgings, O1-01-78 Section III, Division 1, Class 1, 2, 3, MC and CS O1-01-78 Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS O1-01-78 Forgings, Section III, Division 1, Class 1, 2, 3, MC, and CS O1-01-78 Catos 1, 2, and 3 I810 O3-03-77 Testing Lots of Carbon Steel Solid, O3-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS I819⁹ O3-23-77 Use of Type XM-19 for Construction, (N-176-1) O3-23-77 Use of Type XM-19 for Construction, (N-176-1) O3-23-77 Use of Type XM-19 for Construction, (N-1	1748		Low Carbon Austenitic Stainless
 Section III, Division 1, Construction Maximum Dimensions for Isolated Ol-01-78 Pores in Welds-Class I Components, Section III, Division 1 1766 04-26-76 Testing Requirements for Welding Or-01-77 Materials, Class I, 2, 3, MC and CS Construction, Section III, Division 1 1767 04-26-76 Examination of Tubular Products Ol-01-77 Without Filler Metal-Class 1 Con- struction, Section III, Division 1 1770 08-13-76 Use of Other Product Forms of Or-01-77 Materialt for Valves, Section III, Division i 1773 08-13-76 Use of Modified SA-487 Grade (N-139) 01-01-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6MM, Section III, Division 1, Class 1, 2, 3, MC or CS 1781 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6MM, Section III, Division 1, Class 1, 2, 3, MC or CS 1787 09-10-76 Depth of Weld Repairs for Forgings, 01-01-78 Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Examination of Weld Repairs in (N-158) 07-01-78 Forgings, Section III, Division 1, Class 1, 2, and 3 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819⁹ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 07-11-77 Examination of Springs for Class 1 (7-01-78) Component Standard Supports, Sec- tion III, Division 1, Class 1, 2, and 3 N-130 07-11-77 Use of Modified S	(N-125)	07-01-78	Steel Pipe Welded With Filler Metal,
 1760 04-26-76 Maximum Dimensions for Isolated 01-01-78 Fores in Welds-Class 1 Components, Section III, Division 1 1766 04-26-76 Testing Requirements for Welding 07-01-77 Materials, Class 1, 2, 3, MC and CS Construction, Section III, Division 1 1767 04-26-76 Examination of Tubular Products 01-01-77 Without Filler Metal-Class 1 Construction, Section III, Division 1 1770 08-13-76 Testing of Electroslag Wire and (N-139) 01-01-79 Flux for Class 1, 2, 3, MC, and CS Construction, Section III, Division 1 1773 08-13-76 Use of Other Product Forms of 07-01-77 Material: for Valves, Section III, Division 1 1777 08-13-76 Use of SA-106, Grade C in Class 07-01-77 MC Construction, Section III, Division 1 1781 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section III, Division 1, Class 1, 2, 3, MC and CS Construction 1787 09-10-76 Depth of Weld Repairs for Forgings, 01-01-78 Section III, Division 1, Class 1, 2, 3, MC and CS Construction 1798 01-14-77 Testing Lots of Carbon Steel Solid, 03-03-70 Testing Lots of Carbon Steel Solid, 03-03-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-77 Use of Medified SA-182 Grade Supervision 1 N-180 07-11-77 Examination of Springs for Class 1, 2, 3 md 3 N-178 07-11-77 Steel Castings Refined by the Argon 07-11-80 for Section III, Division 1, Class 1, 2, 01-01-80 for Section III, Division 1, Class 1, 2, 01-01-80 for Section III, Division 1, Class 1, 2, 01-01-80 for Section III, Division 1, Class 1, 2, 01-01-80 for Section III, Division 1, Class			
 01-01-78 Pores in Welds-Class I Components, Section III, Division 1 1766 04-26-76 Testing Requirements for Welding 07-01-77 Materials, Class 1, 2, 3, MC and CS Construction, Section III, Division 1 1767 04-26-76 Examination of Tubular Products 01-01-77 Without Filter Metal-Class I Con- struction, Section III, Division 1 1770 08-13-76 Testing of Electroslag Wire and (N-139) 01-01-79 Flux for Class 1, 2, 3, MC, and CS Construction, Section III, Division 1 1773 08-13-76 Use of Other Product Forms of 07-01-77 MC Construction, Section III, Division 1 1777 08-13-76 Use of SA-106, Grade C in Class 07-01-77 MC Construction, Section III, Division 1 1781 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section III, Division 1, Class 1, 2, 3, MC or CS 1787 09-10-76 Depth of Weld Repairs for Forgings, 01-01-78 Exciton III, Division 1, Class 1, 2, 3, MC and CS Construction 1795 01-14-77 Examination of Weld Repairs in (N-158) 07-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, 3, MC and CS 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819⁹ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, 3 1819-1¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Sec- tion III, Division 1 N-131 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-131 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 	1760	04-26-76	Maximum Dimensions for Isolated
Section III, Division 1 1766 04-26-76 Testing Requirements for Welding 07-01-77 Materials, Class 1, 2, 3, MC and CS Construction, Section III, Division 1 1767 04-26-76 Examination of Tubular Products 01-01-77 Without Filler Metal-Class 1 Con- struction, Section III, Division 1 1770 08-13-76 Use of Other Product Forms of 07-01-77 Material: for Valves, Section III, 1773 08-13-76 Use of Other Product Forms of 07-01-77 Material: for Valves, Section III, 1777 08-13-76 Use of Modified SA-487 Grade 07-01-77 Mc Construction, Section III, Division 1 1781 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section III, Division 1, Class 1, 2, 3, MC or CS 1787 09-10-76 Depth of Weld Repairs for Forgings, 01-01-78 Section III, Division 1, Class 1, 2, 3, MC and CS Construction 1795 01-14-77 Examination of Weld Repairs in (N-158) 07-01-78 Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, and 3 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819 ⁹ 03-23-77 Use of Type XM-19 for Construc- 01-01-78 ton, Section III, Division 1, Class 1, 2, 3 1819-1 ¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, 3, MC, and CS 1819 ⁹ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, 3, MC, and CS 1819-1 ¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 For Class 3 Construction, Sec- tion III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-130 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, N-130 07-11-77 Use of Modified SA-182 Grade F22 01-01-80			
 1766 04-26-76 Testing Requirements for Welding 07-01-77 Materials, Class 1, 2, 3, MC and CS Construction, Section III, Division 1 1767 04-26-76 Examination of Tubular Products 01-01-77 Without Filler Metal-Class 1 Construction, Section III, Division 1 1770 08-13-76 Testing of Electroslag Wire and (N-139) 01-01-79 Flux for Class 1, 2, 3, MC, and CS Construction, Section III, Division 1 1773 08-13-76 Use of Other Product Forms of 07-01-77 Material: for Valves, Section III, Division 1 1777 08-13-76 Use of SA-106, Grade C in Class 07-01-77 MC Construction, Section III, Division 1 1781 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section III, Division 1, Class 1, 2, 3, MC and CS Onstruction 1787 09-10-76 Depth of Weld Repairs for Forgings, 01-01-78 Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 ton, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819⁹ 03-23-77 Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819⁹ 03-23-77 Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, 3, MC, and S 1819-1¹⁰ 03-23-77 Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, 3, MC, and S 1819-1¹⁰ 03-23-77 Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, 3, MC, and S 1819-1¹⁰ 03-23-77 Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819-1¹⁰ 03-23-77 Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, 3, 1319-1¹⁰ 03-23-77 Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, 3, 1419-1¹⁰ 03-23-77 Use of Type XM-19 for Construction			• •
 07-01-77 Materials, Class 1, 2, 3, MC and CS Construction, Section III, Division 1 1767 04-26-76 Examination of Tubular Products 01-01-77 Without Filler Metal-Class 1 Construction, Section III, Division 1 1770 08-13-76 Testing of Electroslag Wire and (N-139) 01-01-79 Flux for Class 1, 2, 3, MC, and CS Construction, Section III, Division 1 1773 08-13-76 Use of Other Product Forms of 07-01-77 Mc Construction, Section III, Division 1 1777 08-13-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section III, Division 1, Class 1, 2, 3, MC or CS 1787 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section III, Division 1, Class 1, 2, 3, MC and CS Construction 1795 01-14-77 Examination of Weld Repairs in (N-158) 07-01-78 Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS Construction 1798 01-14-77 Testing Lots of Carbon Steel Solid, 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3 1819 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, 3 1819 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, 3 1819 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-70 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Section III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 N-180 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 2, and 3 	1766	04-26-76	
Construction, Section III, Division 1 1767 04-26-76 Examination of Tubular Products 01-01-77 Without Filler Metal-Class 1 Con- struction, Section III, Division 1 1770 08-13-76 Testing of Electroslag Wire and (N-139) 01-01-79 Flux for Class 1, 2, 3, MC, and CS Construction, Section III, Division 1 1773 08-13-76 Use of Other Product Forms of 07-01-77 Material: for Valves, Section III, Division 1 1777 08-13-76 Use of SA-106, Grade C in Class 07-01-77 MC Construction, Section III, Divi- sion 1 1781 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section III, Division 1, Class 1, 2, 3, MC or CS 1787 09-10-76 Depth of Weld Repairs for Forgings, 01-01-78 Section III, Division 1, Class 1, 2, 3, MC and CS Construction 1795 01-14-77 Examination of Weld Repairs in (N-158) 07-01-78 Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, and 3 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819 ⁹ 03-23-77 Use of Type XM-19 for Construc- 01-01-78 tion, Section III, Division 1, Class 1, 2, 3 1819 03-23-77 Use of Type XM-19 for Construc- 01-01-78 beciton III, Division 1, Class 1, 2, 3 1819 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, 3 1819-110 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Sec- tion III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-131 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, Division 1, Construction N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1,			
 1767 04-26-76 Examination of Tubular Products 01-01-77 Without Filler Metal-Class 1 Construction, Section III, Division 1 1770 08-13-76 Testing of Electroslag Wire and (N-139) 01-01-79 Flux for Class 1, 2, 3, MC, and CS Construction, Section III, Division 1 1773 08-13-76 Use of Other Product Forms of 07-01-77 Mcterials for Valves, Section III, Division 1 1777 08-13-76 Use of SA-106, Grade C in Class 07-01-77 MC Construction, Section III, Division 1 1781 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section III, Division 1, Class 1, 2, 3, MC or CS 1787 09-10-76 Depth of Weld Repairs for Forgings, 01-01-78 Section III, Division 1, Class 1, 2, 3, MC and CS 1795 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, 3, MC, and CS 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3 1819⁹ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Section III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Section III, Division 1 N-131 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 2 	· .		Construction, Section III, Division 1
01-01-77Without Filler Metal-Class 1 Construction, Section III, Division 1177008-13-76Testing of Electroslag Wire and(N-139)01-01-79Flux for Class 1, 2, 3, MC, and CS Construction, Section III, Division 1177308-13-76Use of Other Product Forms of O7-01-7708-13-76Use of SA-106, Grade C in Class 07-01-77Material: for Valves, Section III, Division 1177708-13-76Use of SA-106, Grade C in Class 07-01-7708-13-76Use of Modified SA-487Grade (N-147)178109-10-76Use of Modified SA-48709-10-76Use of Modified Repairs for Forgings, 01-01-78178709-10-76Depth of Weld Repairs for Forgings, 01-01-78179501-14-77Examination of Weld Repairs in (N-158)07-01-78Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS179801-14-77Use of ASTM A352-75, Grades 01-01-7801-01-78LCA and LCC, Section III, Division 1, Class 1, 2, and 3181003-03-77Testing Lots of Carbon Steel Solid, 03-03-801819 ⁹ 03-23-77Use of Type XM-19 for Construction, (N-176-1)03-23-77Use of Type XM-19 for Construction, (N-176-1)03-23-77Use of Type XM-19 for Construction, 9C for Class 3 Construction, Section III, Division 1, 07-01-78N-18007-11-77Examination of Springs for Class 1, 2, and 3N-17805-25-77Use of ASTM B271, CDA 954, Alloy 01-01-8007-01-78Component Standard Supports, Section III, Division 1N-18	1767	04-26-76	
struction, Section III, Division 1 1770 08-13-76 Testing of Electroslag Wire and (N-139) 01-01-79 Flux for Class 1, 2, 3, MC, and CS Construction, Section III, Division 1 1773 08-13-76 Use of Other Product Forms of 07-01-77 Material: for Valves, Section III, Division 1 1777 08-13-76 Use of SA-106, Grade C in Class 07-01-77 Mc Construction, Section III, Divi- sion 1 1781 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section III, Division 1, Class 1, 2, 3, MC or CS 1787 09-10-76 Depth of Weld Repairs for Forgings, 01-01-78 Section III, Division 1, Class 1, 2, 3, MC and CS Construction 1795 01-14-77 Examination of Weld Repairs in (N-158) 07-01-78 Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, and 3 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819 ⁹ 03-23-77 Use of Type XM-19 for Construc- 01-01-78 Use of ASTM B271, CDA 954, Alloy 01-01-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Sec- tion III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-131 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 2 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 2 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 2 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 2 07-01-78 Component III, Division 1, Class 1, 2 07-01-78 Component II			
 1770 08-13-76 Testing of Electroslag Wire and (N-139) 01-01-79 Flux for Class 1, 2, 3, MC, and CS Construction, Section III, Division 1 1773 08-13-76 Use of Other Product Forms of 07-01-77 Mc Construction, Section III, Division 1 1777 08-13-76 Use of SA-106, Grade C in Class 07-01-77 MC Construction, Section III, Division 1 1781 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section III, Division 1, Class 1, 2, 3, MC or CS 1787 09-10-76 Depth of Weld Repairs for Forgings, 01-01-78 Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Examination of Weld Repairs in (N-158) 07-01-78 Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, and 3 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3 1819⁹ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Section III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 N-181 07-11-77 Steel Castings Refined by the Argon 07-01-78 tore of North Standard Supports, Section III, Division 1 N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 2 	·		
(N-139)01-01-79Flux for Class 1, 2, 3, MC, and CS Construction, Section III, Division 1177308-13-76Use of Other Product Forms of Materials for Valves, Section III, Division i177708-13-76Use of SA-106, Grade C in Class 07-01-7717708-13-76Use of SA-106, Grade C in Class 07-01-77178109-10-76Use of Modified SA-487 Grade (N-147)178109-10-76Use of Modified SA-487 Grade (N-147)178709-10-76Depth of Weld Repairs for Forgings, 01-01-78179501-14-77Examination of Weld Repairs in Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS179801-14-77Use of ASTM A352-75, Grades 01-01-78179801-14-77Use of Carbon Steel Solid, 03-03-80181003-03-77Testing Lots of Carbon Steel Solid, 03-03-80181903-23-77Use of Type XM-19 for Construction, (N-176-1)(N-176-1)03-23-77Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, 31819-11003-23-77Use of ASTM B271, CDA 954, Alloy 01-01-8007-01-78Component Standard Supports, Section III, Division 1N-18007-11-77Examination of Springs for Class 107-01-78Component Standard Supports, Section III, Division 1N-13107-11-77Use of Modified SA-182 Grade F22 01-01-8007-01-78Component Standard Supports, Section III, Division 1, Class 1, 07-01-7807-01-78Component Standard Supports, Section III, Division 1	1770	08-13-76	
Construction, Section III, Division 1 1773 08-13-76 Use of Other Product Forms of 07-01-77 Material: for Valves, Section III, Division 1 1777 08-13-76 Use of SA-106, Grade C in Class 07-01-77 MC Construction, Section III, Divi- sion 1 1781 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section III, Division 1, Class 1, 2, 3, MC or CS 1787 09-10-76 Depth of Weld Repairs for Forgings, 01-01-78 Section III, Division 1, Class 1, 2, 3, MC and CS Construction 1795 01-14-77 Examination of Weld Repairs in (N-158) 07-01-78 Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, and 3 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819 ⁹ 03-23-77 Use of Type XM-19 for Construc- 01-01-78 tion, Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Sec- tion III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-181 07-11-77 Steel Castings Refined by the Argon 07-11-80 Decarburization Process, Section III, Division 1, Class 1, 20 01-01-80 for Section III, Division 1, Class 1, 07-01-78 Component Standard Supports, Sec- tion III, Division 1, Class 1, 07-01-78 Decarburization Process, Section III, Division 1, Construction N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1,			
 1773 08-13-76 Use of Other Product Forms of 07-01-77 Materials for Valves, Section III, Division i 1777 08-13-76 Use of SA-106, Grade C in Class 07-01-77 MC Construction, Section III, Division 1 1781 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section III, Division 1, Class 1, 2, 3, MC or CS 1787 09-10-76 Depth of Weld Repairs for Forgings, 01-01-78 Section III, Division 1, Class 1, 2, 3, MC and CS Construction 1795 01-14-77 Examination of Weld Repairs in (N-158) 07-01-78 Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, and 3 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819⁹ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, 3 1819-1¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Section III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Section III, Division 1 N-131 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 			
 07-01-77 Material: for Valves, Section III, Division i 1777 08-13-76 Use of SA-106, Grade C in Class 07-01-77 MC Construction, Section III, Division 1 1781 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section III, Division 1, Class 1, 2, 3, MC or CS 1787 09-10-76 Depth of Weld Repairs for Forgings, 01-01-78 Section III, Division 1, Class 1, 2, 3, MC and CS Construction 1795 01-14-77 Examination of Weld Repairs in (N-158) 07-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, and 3 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819⁹ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Section III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Section III, Division 1 N-131 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 2, 3 	1773	08-13-76	
Division 1 1777 08-13-76 Use of SA-106, Grade C in Class 07-01-77 MC Construction, Section 111, Divi- sion 1 1781 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section 111, Division 1, Class 1, 2, 3, MC or CS 1787 09-10-76 Depth of Weld Repairs for Forgings, 01-01-78 Section 111, Division 1, Class 1, 2, 3, MC and CS Construction 1795 01-14-77 Examination of Weld Repairs in (N-158) 07-01-78 Forgings, Section 111, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section 111, Division 1, Class 1, 2, and 3 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section 111, Division 1, Class 1, 2, 3, MC, and CS 1819 ⁹ 03-23-77 Use of Type XM-19 for Construc- 01-01-78 tion, Section 111, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Sec- tion 111, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Sec- tion 111, Division 1 N-131 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section 111, Division 1, Class 1, 2			
177708-13-76Use of SA-106, Grade C in Class MC Construction, Section III, Division 1178109-10-76Use of Modified SA-487 Grade (N-147)178109-10-76Use of Modified SA-487 Grade (Sas 1, 2, 3, MC or CS178709-10-76Depth of Weld Repairs for Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS Construction179501-14-77Examination of Weld Repairs in (N-158)179801-14-77Examination of Weld Repairs in (N-158)179801-14-77Use of ASTM A352-75, Grades 01-01-78179801-14-77Use of Carbon Steel Solid, 03-03-77181003-03-77Testing Lots of Carbon Steel Solid, 03-03-80181903-03-77Use of Type XM-19 for Construc- 01-01-781819-11003-23-77Use of Type XM-19 for Construction, (N-176-1)03-23-77Use of ASTM B271, CDA 954, Alloy 01-01-8001-01-78Component Standard Supports, Sec- tion III, Division 1N-18007-11-77Examination of Springs for Class 1 07-01-78N-13107-11-77Use of Modified SA-182 Grade F22 01-01-8007-11-77Use of Modified SA-182 Grade F22 01-01-80	: 1.4	•••••	
07-01-77MC Construction, Section III, Division 1178109-10-76Use of Modified SA-487 Grade(N-147)07-01-78CA6NM, Section III, Division 1, Class 1, 2, 3, MC or CS178709-10-76Depth of Weld Repairs for Forgings, 01-01-7801-01-78Section III, Division 1, Class 1, 2, 3, MC and CS Construction179501-14-77Examination of Weld Repairs in (N-158)07-01-78Forgings, Section III, Division 1, Class-1, 2, 3, MC and CS179801-14-77Use of ASTM A352-75, Grades 01-01-7801-01-78LCA and LCC, Section III, Division 1, Class 1, 2, and 3181003-03-77Testing Lots of Carbon Steel Solid, 03-03-80181903-23-77Use of Type XM-19 for Construc- 01-01-781819-11003-23-77Use of Type XM-19 for Construction, (N-176-1)03-23-77Use of ASTM B271, CDA 954, Alloy 01-01-8001-01-78cor Class 307-01-78Component Standard Supports, Sec- tion III, Division 1N-13107-11-77N-13107-11-7707-11-77Use of Modified SA-182 Grade F22 01-01-8001-01-80for Section III, Division 1, Class 1, 07-01-78	1777	08-13-76	
sion 1 1781 09-10-76 Use of Modified SA-487 Grade (N-147) 07-01-78 CA6NM, Section III, Division 1, Class 1, 2, 3, MC or CS 1787 09-10-76 Depth of Weld Repairs for Forgings, 01-01-78 Section III, Division 1, Class 1, 2, 3, MC and CS Construction 1795 01-14-77 Examination of Weld Repairs in (N-158) 07-01-78 Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, and 3 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819 ⁹ 03-23-77 Use of Type XM-19 for Construc- 01-01-78 tion, Section III, Division 1, Class 1, 2, 3 1819-1 ¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 for Class 3 Construction, Sec- tion III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-131 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 2 01-01-80 for Section III, Division 1, Class 1, 2 N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 1 N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 1 N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 1 N-184 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 1 N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 1 N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 1 N-185 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 1 N-185 07-11-77 Use 07 Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 1 N-185 07-11-77			
178109-10-76Use of Modified SA-487 Grade(N-147)07-01-78CA6NM, Section III, Division 1, Class 1, 2, 3, MC or CS178709-10-76Depth of Weld Repairs for Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS Construction179501-14-77Examination of Weld Repairs in (N-158)07-01-78Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS179801-14-77Use of ASTM A352-75, Grades 01-01-7801-01-78LCA and LCC, Section III, Division 1, Class 1, 2, and 3181003-03-77Testing Lots of Carbon Steel Solid, 03-03-8003-03-80Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS1819903-23-77Use of Type XM-19 for Construc- 01-01-7801-01-78Use of Type XM-19 for Construction, (N-176-1)03-23-77Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, and 3N-17805-25-77Use of ASTM B271, CDA 954, Alloy 01-01-8001-01-78Component Standard Supports, Sec- tion III, Division 1N-18007-11-77Examination of Springs for Class 1 07-01-78N-18107-11-77Steel Castings Refined by the Argon 07-11-80N-18307-11-77Use of Modified SA-182 Grade F22 01-01-8001-01-80for Section III, Division 1, Class 1, 07-01-80		01 01 11	-
(N-147)07-01-78CA6NM, Section III, Division 1, Class 1, 2, 3, MC or CS178709-10-76Depth of Weld Repairs for Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS Construction179501-14-77Examination of Weld Repairs in (N-158)07-01-78Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS179801-14-77Use of ASTM A352-75, Grades 01-01-7801-01-78LCA and LCC, Section III, Division 1, Class 1, 2, and 3181003-03-77Testing Lots of Carbon Steel Solid, 03-03-8003-03-80Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS1819°03-23-77Use of Type XM-19 for Construc- 01-01-7801-01-78Use of Type XM-19 for Construction, N-176-1)03-23-77Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, and 3N-17805-25-77Use of ASTM B271, CDA 954, Alloy 01-01-8001-01-78Component Standard Supports, Section III, Division 1N-18007-11-77Examination of Springs for Class 1 07-01-78N-18107-11-77Steel Castings Refined by the Argon 07-11-80N-18307-11-77Use of Modified SA-182 Grade F22 01-01-80N-18307-11-77Use of Modified SA-182 Grade F22 01-01-80	1781	09-10-76	
Class 1, 2, 3, MC or CS 1787 09-10-76 Depth of Weld Repairs for Forgings, 01-01-78 Section III, Division 1, Class 1, 2, 3, MC and CS Construction 1795 01-14-77 Examination of Weld Repairs in (N-158) 07-01-78 Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, and 3 1810 03-03-77 Testing Lots of Carbon Stcel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819 ⁹ 03-23-77 Use of Type XM-19 for Construc- 01-01-78 tion, Section III, Division 1, Class 1, 2, 3 1819-1 ¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Sec- tion III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-181 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 2	•		
 1787 09-10-76 Depth of Weld Repairs for Forgings, 01-01-78 Section III, Division I, Class 1, 2, 3, MC and CS Construction 1795 01-14-77 Examination of Weld Repairs in (N-158) 07-01-78 Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, and 3 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819 03-23-77 Use of Type XM-19 for Construction, 01-01-78 tion, Section III, Division 1, Class 1, 2, 3 1819-1¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Section III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Section III, Division 1 N-131 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 1 		0.01.0	
 01-01-78 Section III, Division I, Class 1, 2, 3, MC and CS Construction 1795 01-14-77 Examination of Weld Repairs in (N-158) 07-01-78 Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, and 3 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819 03-23-77 Use of Type XM-19 for Construc- 01-01-78 tion, Section III, Division 1, Class 1, 2, 3 1819-1¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Sec- tion III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-131 07-11-77 Steel Castings Refined by the Argon 07-11-80 Decarburization Process, Section III, Division 1, Construction N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 	1787	09-10-76	
MC and CS Construction 1795 01-14-77 Examination of Weld Repairs in (N-158) 07-01-78 Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, and 3 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819 ⁹ 03-23-77 Use of Type XM-19 for Construc- 01-01-78 tion, Section III, Division 1, Class 1, 2, 3 1819-1 ¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Sec- tion III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-131 07-11-77 Steel Castings Refined by the Argon 07-11-80 Decarburization Process, Section III, Division 1, Construction N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1,			
 1795 01-14-77 Examination of Weld Repairs in (N-158) 07-01-78 Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, and 3 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819⁹ 03-23-77 Use of Type XM-19 for Constructon, 01-01-78 tion, Section III, Division 1, Class 1, 2, 3 1819-1¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Section III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Section III, Division 1 N-181 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 1 			
 (N-158) 07-01-78 Forgings, Section III, Division 1, Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, and 3 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819⁹ 03-23-77 Use of Type XM-19 for Construc- 01-01-78 tion, Section III, Division 1, Class 1, 2, 3 1819-1¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Sec- tion III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-131 07-11-77 Steel Castings Refined by the Argon 07-11-80 Decarburization Process, Section III, Division 1, Class 1, 2 N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 	1795	01-14-77	
Class 1, 2, 3, MC and CS 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, and 3 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819 ⁹ 03-23-77 Use of Type XM-19 for Construc- 01-01-78 tion, Section III, Division 1, Class 1, 2, 3 1819-1 ¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Sec- tion III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-131 07-11-77 Steel Castings Refined by the Argon 07-11-80 Decarburization Process, Section III, Division 1, Class 1, 2 01-01-80 for Section III, Division 1, Class 1, N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1,			
 1798 01-14-77 Use of ASTM A352-75, Grades 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, and 3 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819⁹ 03-23-77 Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, 3 1819-1¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Section III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Section III, Division 1 N-131 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 1 	(
 01-01-78 LCA and LCC, Section III, Division 1, Class 1, 2, and 3 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819⁹ 03-23-77 Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, 3 1819-1¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Section III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Section III, Division 1 N-131 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 1 	1798	01-14-77	
1, Class 1, 2, and 3181003-03-77Testing Lots of Carbon Steel Solid, Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS1819903-23-77Use of Type XM-19 for Construc- 01-01-7801-01-78tion, Section III, Division 1, Class 1, 2, 31819-11003-23-77Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, 31819-11003-23-77Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, and 3N-17603-23-77Use of ASTM B271, CDA 954, Alloy 01-01-8001-01-809C for Class 3 Construction, Section III, Division 1N-18007-11-77Examination of Springs for Class 1 07-01-78N-13107-11-77Steel Castings Refined by the Argon 07-11-80N-18307-11-77Use of Modified SA-182 Grade F22 01-01-80N-18307-11-77Use of Modified SA-182 Grade F22 01-01-80			
 1810 03-03-77 Testing Lots of Carbon Steel Solid, 03-03-80 Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS 1819⁹ 03-23-77 Use of Type XM-19 for Construc- 01-01-78 tion, Section III, Division 1, Class 1, 2, 3 1819-1¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Sec- tion III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-131 07-11-77 Steel Castings Refined by the Argon 07-11-80 Decarburization Process, Section III, Division 1, Construction N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 	•		
03-03-80Bare Welding Electrode or Wire, Section III, Division 1, Class 1, 2, 3, MC, and CS1819903-23-77Use of Type XM-19 for Construc- 01-01-7801-01-78tion, Section III, Division 1, Class 1, 2, 31819-11003-23-77Use of Type XM-19 for Construction, (N-176-1)(N-176-1)03-23-80Section III, Division 1, Class 1, 2, and 3N-17805-25-77Use of ASTM B271, CDA 954, Alloy 01-01-8001-01-809C for Class 3 Construction, Section III, Division 1N-18007-11-77Examination of Springs for Class 1 07-01-78Component Standard Supports, Section III, Division 1N-13107-11-77Steel Castings Refined by the Argon 07-11-80N-18307-11-77Use of Modified SA-182 Grade F22 01-01-8001-01-80for Section III, Division 1, Class 1,	1 1810	03-03-77	
Section III, Division 1, Class 1, 2, 3, MC, and CS 1819 ⁹ 03-23-77 Use of Type XM-19 for Construc- 01-01-78 tion, Section III, Division 1, Class 1, 2, 3 1819-1 ¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Sec- tion III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-131 07-11-77 Steel Castings Refined by the Argon 07-11-80 Decarburization Process, Section III, Division 1, Construction N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1,			
3, MC, and CS 1819 ⁹ 03-23-77 Use of Type XM-19 for Construc- 01-01-78 tion, Section III, Division 1, Class 1, 2, 3 1819-1 ¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Sec- tion III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-131 07-11-77 Steel Castings Refined by the Argon 07-11-80 Decarburization Process, Section III, Division 1, Construction N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1,			
 1819⁹ 03-23-77 Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, 3 1819-1¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Section III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Section III, Division 1 N-131 07-11-77 Steel Castings Refined by the Argon 07-11-80 Decarburization Process, Section III, Division 1, Construction N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 			
01-01-78 tion, Section III, Division 1, Class 1, 2, 3 1819-1 ¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Sec- tion III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-131 07-11-77 Steel Castings Refined by the Argon 07-11-80 Decarburization Process, Section III, Division 1, Construction N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1,	1819 ⁹	03-23-77	
1, 2, 31819-11003-23-77Use of Type XM-19 for Construction, Section III, Division 1, Class 1, 2, and 3N-17805-25-77Use of ASTM B271, CDA 954, Alloy 01-01-8001-01-809C for Class 3 Construction, Section III, Division 1N-18007-11-77Examination of Springs for Class 1 07-01-7807-01-78Component Standard Supports, Section III, Division 1N-13107-11-77Steel Castings Refined by the Argon 07-11-80N-18307-11-77Use of Modified SA-182 Grade F22 01-01-8001-01-80for Section III, Division 1, Class 1,			
 1819-1¹⁰ 03-23-77 Use of Type XM-19 for Construction, (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Sec- tion III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-131 07-11-77 Steel Castings Refined by the Argon 07-11-80 Decarburization Process, Section III, Division 1, Construction N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 			
 (N-176-1) 03-23-80 Section III, Division 1, Class 1, 2, and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Section III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Section III, Division 1 N-131 07-11-77 Steel Castings Refined by the Argon 07-11-80 Decarburization Process, Section III, Division 1, Construction N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 	1819-110	03-23-77	
and 3 N-178 05-25-77 Use of ASTM B271, CDA 954, Alloy 01-01-80 9C for Class 3 Construction, Sec- tion III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Sec- tion III, Division 1 N-131 07-11-77 Steel Castings Refined by the Argon 07-11-80 Decarburization Process, Section III, Division 1, Construction N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1,	1		
01-01-809C for Class 3 Construction, Section III, Division 1N-18007-11-77Examination of Springs for Class 107-01-78Component Standard Supports, Section III, Division 1N-13107-11-77Steel Castings Refined by the Argon 07-11-8007-11-80Decarburization Process, Section III, Division 1, ConstructionN-18307-11-77Use of Modified SA-182 Grade F22 01-01-8001-01-80for Section III, Division 1, Class 1,			
01-01-809C for Class 3 Construction, Section III, Division 1N-18007-11-77Examination of Springs for Class 107-01-78Component Standard Supports, Section III, Division 1N-13107-11-77Steel Castings Refined by the Argon 07-11-8007-11-80Decarburization Process, Section III, Division 1, ConstructionN-18307-11-77Use of Modified SA-182 Grade F22 01-01-8001-01-80for Section III, Division 1, Class 1,	N-178	05-25-77	+
 tion III, Division 1 N-180 07-11-77 Examination of Springs for Class 1 07-01-78 Component Standard Supports, Section III, Division 1 N-131 07-11-77 Steel Castings Refined by the Argon 07-11-80 Decarburization Process, Section III, Division 1, Construction N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1, 		01-01-80	
N-18007-11-77Examination of Springs for Class 107-01-78Component Standard Supports, Section III, Division 1N-13107-11-77Steel Castings Refined by the Argon07-11-80Decarburization Process, Section III, Division 1, ConstructionN-18307-11-77Use of Modified SA-182 Grade F22 01-01-8001-01-80for Section III, Division 1, Class 1,			
07-01-78Component Standard Supports, Section III, Division IN-13107-11-77Steel Castings Refined by the Argon07-11-80Decarburization Process, Section III, Division 1, ConstructionN-18307-11-77Use of Modified SA-182 Grade F22 01-01-8001-01-80for Section III, Division 1, Class 1,	N-180	07-11-77	
tion III, Division 1 N-131 07-11-77 Steel Castings Refined by the Argon 07-11-80 Decarburization Process, Section III, Division 1, Construction N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1,			
N-13107-11-77Steel Castings Refined by the Argon Decarburization Process, Section III, Division 1, ConstructionN-18307-11-77Use of Modified SA-182 Grade F22 01-01-8001-01-80for Section III, Division 1, Class 1,	•		
07-11-80 Decarburization Process, Section III, Division 1, Construction N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1,	N-131	07-11-77	
Division 1, Construction N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1,			
N-183 07-11-77 Use of Modified SA-182 Grade F22 01-01-80 for Section III, Division 1, Class 1,	A second second		
01-01-80 for Section III, Division 1, Class 1,	N-183	07-11-77	
2 and 3 Construction			

⁹This Code Case was reaffirmed as Case 1819-1. See regulatory position 2 for the effective dates.

¹⁰Case 1819 (N 176) was annulled December 31, 1977. However, it was later reaffirmed to continue providing rules pertaining to lexternal pressure charts. 08-29-77 Use of SA-455 for Class 3 Com-07-01-78 ponents, Section 111, 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, ¹¹ and title. ¹²

N-190

1332-6	03-09-72	Requirements for Steel Forgings,
	01-08-79	Section III and VIII, Division 2
1335-9	04-29-74	Requirements for Bolting Materials
	08-28-78	
1337-9	04-29-74	Special Type 403 Modified Forg-
	04-28-75	ings or Bars, Section III
1337-10	04-28-75	Special Type 403 Modified Forg-
	05-15-78	ings or Bars, Section III
1395-3	11-06-72	SA-508, Class 2 Forgings with Modi-
	01-08-79	fied Manganese Content, Section III
		or Section VIII, Division 2
1407-2	06-26-72	Time of Examination for Class 1, 2,
	07-01-74	and 3, Section III Vessels
1414-3	11-03-75	High Yield Strength Cr-Mo Steel for
•	03-01-76	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 High Yield Strength Cr-Mo Steel for 08-09-77 Section III, Division I, Class 1 Vessels

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	04-29-7 4	SB-163 Nickel-Chromium-Iron Tub-
	11-04-74	ing (Alloy 600) at a Specified Mini-
, <i>*</i>	·	mum Yield Strength of 40.0 Ksi,
•	· .	Section III, Class 1
1484-2	11-04-74	SB-163 Nickel-Chromium-Iron Tub-
	08-13-76	ing (Alloy 600 and 690) at a Speci-
		fied Minimum Yield Strength of
		40.0 Ksi, Section III, Class 1
149213	10-29-71	Post Weld Heat Treatment, Section 1,
	03-03-7 5	III and VIII, Division 1 and 2

¹¹Eartier date-date Code Case was approved by ASME Council; later date-date revision of Code Case was approved by ASME Council.

¹²Code 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.



¹³Code Case 1492 is no longer listed by ASME as a Section III Code Case and is therefore deleted from the acceptable listing.

1557-2 1618 12-17-73Steel Products Refined by Secondary01-08-79Remelting

03-02-74 Material for Core Support Struc-03-03-75 tures - 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 Material for Core Support Structures 03-01-76 Section III, Subsection NG

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.

1626	03-02-74	Normalized and Tempered 1-1/4 Cr
	01-08-79	Low Alloy Steel Forgings, Section 1,
		Section III, and Section VIII, Divi-
		sion 1 and 2
1634	07-01-74	Use of SB-359 for Section III,
	08-12-74	Class 3 Construction
1634-1	08-12-74	Use of SB-359 for Section III,
	08-13-76	Class 3 Construction
1644	08-12-74	Additional Materials for Component
	04-28-75	Supports - Section III, Subsection
		NF, Class 1, 2, 3, and MC Construc-
		tion

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 Ad 06-30-75 Sup NF

Additional Materials for Component
 Supports - Section III, Subsection
 NF, Class 1, 2, 3, and MC Construction

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 Additional Materials for Component 11-03-75 Supports - Section III, Subsection NF, Class 1, 2, 3 and MC Construction

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

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 Alternale Design Requirements for Bolted Joints, Section III, Division 1, Subsection NF, Class 1, 2, 3 and MC Construction

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 highstrength 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

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 highstrength 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) 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.

644-6

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 Construction

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 highstrength 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.

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 I, 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 Re-
	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

4. Code Cases for Class I 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 I 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, § 50.554 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*

1332-7	1618-2	N-205
1334-3	1626-1 (N-65-1)	N-206
1335-10 (N-3-10)	1644-9 (N-71-9)	N-207-1
1337-11 (N-4-11)	1698 (N-92)	N-223
1344-5	1714-2 (N-102-2)	N-224
1358-5	1722-1 (N-107-1)	N-225
1395-4 (N-9-4)	1747	N-227
1407-3	1754	N-242
1414-5 (N-11-5)	1755-1	N-245
1474-1	1759-1 (N-131-1)	N-246
1484-3	1772	N-248
1498-1	1782	N-249
1527	1793	N-259
1542-1	1794	N-265
1557-3 (N-37-3)	1820	N-267
1571	N-188-1	N-274
1578	N-204	N-277

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

1.85-10