

CODE CASES

2025

ASME Boiler and
Pressure Vessel Code
An International Code

**Boilers and
Pressure Vessels**

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AN INTERNATIONAL CODE

2025 ASME Boiler & Pressure Vessel Code

2025 Edition

July 1, 2025

CODE CASES

Boilers and Pressure Vessels



The American Society of
Mechanical Engineers

Two Park Avenue • New York, NY • 10016 USA

Date of Issuance: July 1, 2025

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The endnotes and preamble in this document (if any) are part of this American National Standard.



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Library of Congress Catalog Card Number: 56-3934

Adopted by the Council of The American Society of Mechanical Engineers, 1914; latest edition 2025.

The American Society of Mechanical Engineers
Two Park Avenue, New York, NY 10016-5990

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Printed in U.S.A.

TABLE OF CONTENTS

List of Sections	iv
Foreword	v
Correspondence With the Committee	vii
Summary of Changes	1
Cross-Referencing in the ASME BPVC	1
Notes to Numeric Index	ii
Numeric Index	xii
Subject Index	xxiii
Index of Material Specifications Referred to in Cases	xxxvi

LIST OF SECTIONS

SECTIONS

- I Rules for Construction of Power Boilers
- II Materials
 - Part A — Ferrous Material Specifications
 - Part B — Nonferrous Material Specifications
 - Part C — Specifications for Welding Rods, Electrodes, and Filler Metals
 - Part D — Properties (Customary)
 - Part D — Properties (Metric)
- III Rules for Construction of Nuclear Facility Components
 - Subsection NCA — General Requirements for Division 1 and Division 2
 - Appendices
 - Division 1
 - Subsection NB — Class 1 Components
 - Subsection NCD — Class 2 and Class 3 Components
 - Subsection NE — Class MC Components
 - Subsection NF — Supports
 - Subsection NG — Core Support Structures
 - Division 2 — Code for Concrete Containments
 - Division 3 — Containment Systems for Transportation and Storage of Spent Nuclear Fuel and High-Level Radioactive Material
 - Division 4 — Fusion Energy Devices
 - Division 5 — High Temperature Reactors
- IV Rules for Construction of Heating Boilers
- V Nondestructive Examination
- VI Recommended Rules for the Care and Operation of Heating Boilers
- VII Recommended Guidelines for the Care of Power Boilers
- VIII Rules for Construction of Pressure Vessels
 - Division 1
 - Division 2 — Alternative Rules
 - Division 3 — Alternative Rules for Construction of High Pressure Vessels
- IX Welding, Brazing, and Fusing Qualifications
- X Fiber-Reinforced Plastic Pressure Vessels
- XI Rules for Inservice Inspection of Nuclear Reactor Facility Components
 - Division 1 — Rules for Inservice Inspection of Nuclear Power Plant Components
 - Division 2 — Requirements for Reliability and Integrity Management (RIM) Programs for Nuclear Reactor Facilities
- XII Rules for Construction and Continued Service of Transport Tanks
- XIII Rules for Overpressure Protection

FOREWORD*

(25)

In 1911, The American Society of Mechanical Engineers established the Boiler and Pressure Vessel Committee to formulate standard rules for the construction of steam boilers and other pressure vessels. In 2009, the Boiler and Pressure Vessel Committee was superseded by the following committees:

- (a) Committee on Power Boilers (I)
- (b) Committee on Materials (II)
- (c) Committee on Construction of Nuclear Facility Components (III)
- (d) Committee on Heating Boilers (IV)
- (e) Committee on Nondestructive Examination (V)
- (f) Committee on Pressure Vessels (VIII)
- (g) Committee on Welding, Brazing, and Fusing (IX)
- (h) Committee on Fiber-Reinforced Plastic Pressure Vessels (X)
- (i) Committee on Nuclear Inservice Inspection (XI)
- (j) Committee on Transport Tanks (XII)
- (k) Committee on Overpressure Protection (XIII)
- (l) Technical Oversight Management Committee (TOMC)

Where reference is made to “the Committee” in this Foreword, each of these committees is included individually and collectively.

The Committee’s function is to establish rules of safety relating to pressure integrity. The rules govern the construction** of boilers, pressure vessels, transport tanks, and nuclear components, and the inservice inspection of nuclear components and transport tanks. For nuclear items other than pressure-retaining components, the Committee also establishes rules of safety related to structural integrity. The Committee also interprets these rules when questions arise regarding their intent. The technical consistency of the sections of the Code and coordination of standards development activities of the Committees is supported and guided by the Technical Oversight Management Committee. The Code does not address other safety issues relating to the construction of boilers, pressure vessels, transport tanks, or nuclear components, or the inservice inspection of nuclear components or transport tanks. Users of the Code should refer to the pertinent codes, standards, laws, regulations, or other relevant documents for safety issues other than those relating to pressure integrity and, for nuclear items other than pressure-retaining components, structural integrity. Except for Sections XI and XII, and with a few other exceptions, the rules do not, of practical necessity, reflect the likelihood and consequences of deterioration in service related to specific service fluids or external operating environments. In formulating the rules, the Committee considers the needs of users, manufacturers, and inspectors of components addressed by the Code. The objective of the rules is to afford reasonably certain protection of life and property, and to provide a margin for deterioration in service to give a reasonably long, safe period of usefulness. Advancements in design and materials and evidence of experience have been recognized.

The Code contains mandatory requirements, specific prohibitions, and nonmandatory guidance for construction activities and inservice inspection and testing activities. The Code does not address all aspects of these activities and those aspects that are not specifically addressed should not be considered prohibited. The Code is not a handbook and cannot replace education, experience, and the use of engineering judgment. The phrase *engineering judgment* refers to technical judgments made by knowledgeable engineers experienced in the application of the Code. Engineering judgments must be consistent with Code philosophy, and such judgments must never be used to overrule mandatory requirements or specific prohibitions of the Code.

The Committee recognizes that tools and techniques used for design and analysis change as technology progresses and expects engineers to use good judgment in the application of these tools. The designer is responsible for complying with Code rules and demonstrating compliance with Code equations when such equations are mandatory. The Code neither requires nor prohibits the use of computers for the design or analysis of components constructed to the requirements of the Code. However, designers and engineers using computer programs for design or analysis are cautioned that they are

* The information contained in this Foreword is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI’s requirements for an ANS. Therefore, this Foreword may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to the Code.

** *Construction*, as used in this Foreword, is an all-inclusive term comprising materials, design, fabrication, examination, inspection, testing, certification, and overpressure protection.

responsible for all technical assumptions inherent in the programs they use and the application of these programs to their design.

The rules established by the Committee are not to be interpreted as approving, recommending, or endorsing any proprietary or specific design, or as limiting in any way the manufacturer's freedom to choose any method of design or any form of construction that conforms to the Code rules.

The Committee meets regularly to consider revisions of the rules, new rules as dictated by technological development, Code cases, and requests for interpretations. Only the Committee has the authority to provide official interpretations of the Code. Requests for revisions, new rules, Code cases, or interpretations shall be addressed to the staff secretary in writing and shall give full particulars in order to receive consideration and action (see the Correspondence With the Committee page). Proposed revisions to the Code resulting from inquiries will be presented to the Committee for appropriate action. The action of the Committee becomes effective only after confirmation by ballot of the Committee and approval by ASME. Proposed revisions to the Code approved by the Committee are submitted to the American National Standards Institute (ANSI) and published at <http://go.asme.org/BPVCPublicReview> to invite comments from all interested persons. After public review and final approval by ASME, revisions are published at regular intervals in Editions of the Code.

The Committee does not rule on whether a component shall or shall not be constructed to the provisions of the Code. The scope of each Section has been established to identify the components and parameters considered by the Committee in formulating the Code rules.

Questions or issues regarding compliance of a specific component with the Code rules are to be directed to the ASME Certificate Holder (Manufacturer). Inquiries concerning the interpretation of the Code are to be directed to the Committee. ASME is to be notified should questions arise concerning improper use of the ASME Single Certification Mark.

When required by context in the Code, the singular shall be interpreted as the plural, and vice versa.

The words "shall," "should," and "may" are used in the Code as follows:

- *Shall* is used to denote a requirement.
- *Should* is used to denote a recommendation.
- *May* is used to denote permission, neither a requirement nor a recommendation.

CORRESPONDENCE WITH THE COMMITTEE

General

ASME codes and standards are developed and maintained by committees with the intent to represent the consensus of concerned interests. Users of ASME codes and standards may correspond with the committees to propose revisions or cases, report errata, or request interpretations. Correspondence for this Section of the ASME Boiler and Pressure Vessel Code (BPVC) should be sent to the staff secretary noted on the Section's committee web page, accessible at <https://go.asme.org/CSCcommittees>.

NOTE: See ASME BPVC Section II, Part D for guidelines on requesting approval of new materials. See Section II, Part C for guidelines on requesting approval of new welding and brazing materials ("consumables").

Revisions and Errata

The committee processes revisions to this Code on a continuous basis to incorporate changes that appear necessary or desirable as demonstrated by the experience gained from the application of the Code. Approved revisions will be published in the next edition of the Code.

In addition, the committee may post errata and Special Notices at <http://go.asme.org/BPVCerrata>. Errata and Special Notices become effective on the date posted. Users can register on the committee web page to receive email notifications of posted errata and Special Notices.

This Code is always open for comment, and the committee welcomes proposals for revisions. Such proposals should be as specific as possible, citing the paragraph number, the proposed wording, and a detailed description of the reasons for the proposal, including any pertinent background information and supporting documentation.

Cases

- (a) The most common applications for cases are
 - (1) to permit early implementation of a revision based on an urgent need
 - (2) to provide alternative requirements
 - (3) to allow users to gain experience with alternative or potential additional requirements prior to incorporation directly into the Code
 - (4) to permit use of a new material or process
- (b) Users are cautioned and not all jurisdictions or owners automatically accept cases. Cases are not to be considered as approving, recommending, certifying, or endorsing any proprietary or specific design, or as limiting in any way the freedom of manufacturers, constructors, or owners to choose any method of design or any form of construction that conforms to the Code.
- (c) The committee will consider proposed cases concerning the following topics only:
 - (1) equipment to be marked with the ASME Single Certification Mark, or
 - (2) equipment to be constructed as a repair/replacement activity under the requirements of Section XI
- (d) A proposed case shall be written as a question and reply in the same format as existing cases. The proposal shall also include the following information:
 - (1) a statement of need and background information
 - (2) the urgency of the case (e.g., the case concerns a project that is underway or imminent)
 - (3) the Code Section and the paragraph, figure, or table number to which the proposed case applies
 - (4) the editions of the Code to which the proposed case applies
- (e) A case is effective for use when the public review process has been completed and it is approved by the cognizant supervisory board. Cases that have been approved will appear in the next edition or supplement of the Code Cases books, "Boilers and Pressure Vessels" or "Nuclear Components." Each Code Cases book is updated with seven Supplements.

Supplements will be sent or made available automatically to the purchasers of the Code Cases books until the next edition of the Code. Annulments of Code Cases become effective six months after the first announcement of the annulment in a Code Case Supplement or Edition of the appropriate Code Case book. The status of any case is available at <http://go.asme.org/BPVCCDatabase>. An index of the complete list of Boiler and Pressure Vessel Code Cases and Nuclear Code Cases is available at <http://go.asme.org/BPVCC>.

Interpretations

(a) Interpretations clarify existing Code requirements and are written as a question and reply. Interpretations do not introduce new requirements. If a revision to resolve conflicting or incorrect wording is required to support the interpretation, the committee will issue an intent interpretation in parallel with a revision to the Code.

(b) Upon request, the committee will render an interpretation of any requirement of the Code. An interpretation can be rendered only in response to a request submitted through the online Inquiry Submittal form at <http://go.asme.org/InterpretationRequest>. Upon submitting the form, the inquirer will receive an automatic email confirming receipt.

(c) ASME does not act as a consultant for specific engineering problems or for the general application or understanding of the Code requirements. If, based on the information submitted, it is the opinion of the committee that the inquirer should seek assistance, the request will be returned with the recommendation that such assistance be obtained. Inquirers may track the status of their requests at <http://go.asme.org/Interpretations>.

(d) ASME procedures provide for reconsideration of any interpretation when or if additional information that might affect an interpretation is available. Further, persons aggrieved by an interpretation may appeal to the cognizant ASME committee or subcommittee. ASME does not “approve,” “certify,” “rate,” or “endorse” any item, construction, proprietary device, or activity.

(e) Interpretations are published in the ASME Interpretations Database at <http://go.asme.org/Interpretations> as they are issued.

Committee Meetings

The ASME BPVC committees regularly hold meetings that are open to the public. Persons wishing to attend any meeting should contact the secretary of the applicable committee. Information on future committee meetings can be found at <http://go.asme.org/BCW>.

SUMMARY OF CHANGES

The 2025 Edition of the Code Cases includes Code Case actions published through Supplement 7 to the 2023 Edition.

Changes listed below are identified on the pages by a margin note, **(25)**, placed next to the affected area. Errata, if any, are identified by a margin note, **(E)**, placed next to the affected area.

<i>Page</i>	<i>Location</i>	<i>Change</i>
iv	List of Sections	Title of Section XI, Division 1 revised
v	Foreword	Third, fourth, seventh, tenth, and eleventh paragraphs editorially revised
xi	Notes to Numeric Index	Revised
xii	Numeric Index	Updated
xxiii	Subject Index	Updated
xxxvi	Index of Material Specifications Referred to in Cases	Updated
3	1750-32	Revised
75	2180-9	Revised
103	2223-3	Impending annulment
121	2254-1	Impending annulment
161	2327-4	Revised
225	2440-1	Revised
229	2446-1	Revised
285	2516	Impending annulment
389	2628	Impending annulment
497	2692-1	Revised
919	2868-1	Annulled
921	2869-1	Revised
947	2883	Impending annulment
995	2904	Impending annulment
1121	2959-1	Annulled
1195	2982-2	(1) In Table 7, under “Seamless Pipe,” subcolumn heads corrected to “Yield Strength” and “Tensile Strength” by errata (2) In Table 7M, under “Seamless Pipe,” subcolumn heads corrected to “Yield Strength” and “Tensile Strength” by errata
1277	3021	Annulled
1341	3044	Annulled
1361	3053	Impending annulment
1439	3070	Impending annulment
1457	3078-1	Revised
1467	3079	Impending annulment
1503	3094	Added
1505	3095	Added
1507	3096	Added
1509	3097	Added
1511	3098	Added
1513	3099	Added
1515	3100	Added
1517	3101	Added
1519	3102	Added

CROSS-REFERENCING IN THE ASME BPVC

Paragraphs within the ASME BPVC may include subparagraph breakdowns, i.e., nested lists. The following is a guide to the designation and cross-referencing of subparagraph breakdowns:

(a) Hierarchy of Subparagraph Breakdowns

- (1)* First-level breakdowns are designated as (a), (b), (c), etc.
- (2)* Second-level breakdowns are designated as (1), (2), (3), etc.
- (3)* Third-level breakdowns are designated as (-a), (-b), (-c), etc.
- (4)* Fourth-level breakdowns are designated as (-1), (-2), (-3), etc.
- (5)* Fifth-level breakdowns are designated as (+a), (+b), (+c), etc.
- (6)* Sixth-level breakdowns are designated as (+1), (+2), etc.

(b) Cross-References to Subparagraph Breakdowns. Cross-references within an alphanumerically designated paragraph (e.g., PG-1, UIG-56.1, NCD-3223) do not include the alphanumeric designator of that paragraph. The cross-references to subparagraph breakdowns follow the hierarchy of the designators under which the breakdown appears. The following examples show the format:

- (1)* If X.1(c)(1)(-a) is referenced in X.1(c)(1), it will be referenced as (-a).
- (2)* If X.1(c)(1)(-a) is referenced in X.1(c)(2), it will be referenced as (1)(-a).
- (3)* If X.1(c)(1)(-a) is referenced in X.1(e)(1), it will be referenced as (c)(1)(-a).
- (4)* If X.1(c)(1)(-a) is referenced in X.2(c)(2), it will be referenced as X.1(c)(1)(-a).

NOTES TO NUMERIC INDEX

(25)

- All Code Cases remain available for use until annulled by the ASME Boiler and Pressure Vessel Standards Committees. Code Cases will be reviewed routinely for possible incorporation into the body of the ASME Boiler and Pressure Vessel Code.
- Supplement 7 is the last supplement published for the 2023 edition. Supplement 8 is incorporated into the 2025 edition.
- Cases may be used beginning with the date of approval shown on the Case.
- Annulled Cases will remain in the Numeric Index and Subject Index until the next Edition, at which time they will be deleted.
- Newly revised cases supersede previous versions. Previous Code Case number will be added in the “Annulled Date/Supersedes” column next to the newly revised Code Case.
- The digit following a Case Number is used to indicate the number of times a Case has been revised.
- The Cases are arranged in numerical order, and each page of a Case is identified at the top with the appropriate Case Number.

Legend of Abbreviations

Supp. = Supplement

R = Reinstated

NUMERIC INDEX

Case	Approval Date	Errata	Impending Annulment Date	Annulled Date/ Supersedes
1325-18	6-23-2005	...	...	...
1750-32	2-3-2025	...	...	1750-31
1827-3	12-30-2006	...	...	...
1849-1	8-4-2004	...	...	...
1855-2	12-18-2018	...	...	...
1876-6	3-4-2024	...	...	...
1924-2	12-30-2006	...	...	...
1932-5	8-4-2006	...	...	...
1934	5-25-1983	...	...	...
1935-4	9-23-2007	...	...	...
1936-3	2-20-2002	...	...	...
1949-4	2-20-2004	...	...	...
1968-1	12-2-1990	...	...	...
1993-7	10-26-2016	...	...	...
2016-1	8-12-1996	...	...	...
2038-5	2-7-2000	...	...	...
2055-2	5-4-1999	...	...	...
2063-6	10-2-2008	...	...	...
2073-1	10-29-1999	...	...	...
2093	6-19-1990	...	...	...
2120-1	10-29-1999	...	...	...
2127-3	9-18-2006	...	...	...
2142-6	8-1-2018	...	...	...
2143-2	4-1-2014	...	...	...
2146	11-25-1992	...	...	...
2150	8-12-1993	...	...	...
2151-3	9-30-2018	...	...	...
2172	8-8-1994	...	...	...
2179-12	5-12-2024	...	...	...
2180-9	2-3-2025	...	...	2180-8
2192-11	10-4-2023	...	...	...
2195-1	2-7-2000	...	...	...
2196-5	4-2-2020	...	...	...
2197-1	2-17-2000	...	...	...
2199-10	5-12-2024	...	...	...
2203-2	12-7-2022	...	...	...
2205	6-5-1995	...	...	...
2217-5	6-17-2003	...	...	...
2222-2	10-29-1999	...	...	...
2223-3	6-20-2002	...	1-1-2026	...
2224-2	9-18-2006	...	...	...
2226-2	5-21-2003	...	...	...
2230-2	10-29-1999	...	...	...

Case	Approval Date	Errata	Impending Annulment Date	Annulled Date/Supersedes
2239-1	10-29-1999	...	...	...
2244-2	1-20-2000	...	...	...
2247	7-9-1998	...	...	...
2249	8-11-1997	...	...	...
2254-1	4-2-2020	...	1-1-2026	...
2260-3	12-2-2019	...	...	...
2276-1	2-17-2000	...	...	...
2286-6	10-30-2015	...	...	...
2297	11-30-1999	...	...	...
2300	9-23-1999	...	...	...
2304-2	5-12-2004	...	...	...
2305-1	12-14-2009	...	...	...
2318	9-23-1999	...	...	...
2321-1	2-20-2002	...	...	...
2324-1	3-21-2012	...	...	...
2327-4	2-3-2025	...	...	2327-3
2334	7-10-2000	...	...	...
2346-1	2-14-2003	...	...	...
2350	2-26-2001	...	...	...
2351-1	11-30-2017	...	...	...
2353-2	4-23-2023	...	...	...
2357-2	12-30-2006	...	...	...
2359-2	6-23-2005	...	...	...
2377	1-27-2003	...	...	...
2385-1	5-4-2004	...	...	...
2397-2	8-30-2022	...	...	...
2400	2-14-2003	...	...	...
2402-1	9-25-2012	...	...	...
2403	2-13-2003	...	10-1-2025	...
2407	2-13-2003	...	...	...
2411	6-23-2005	...	...	...
2416	2-13-2003	...	...	...
2418-2	6-23-2014	...	...	...
2419	5-21-2003	...	...	...
2421	5-21-2003	...	...	...
2426	1-27-2003	...	...	...
2427	5-21-2003	...	...	...
2428-4	4-17-2020	...	...	...
2430	1-12-2005	...	...	...
2432-1	6-20-2008	...	...	...
2439	2-14-2003	...	...	...
2440-1	11-10-2024	...	...	2440
2445-2	6-25-2010	...	...	...
2446-1	11-10-2024	...	...	2446
2458-3	1-22-2007	...	...	...
2461-2	9-12-2017	...	...	...
2463-1	9-8-2010	...	...	...
2468-3	3-13-2020	...	...	...
2469-1	10-21-2009	...	...	...
2473-2	12-18-2018	...	...	...
2475	11-29-2004	...	...	...

Case	Approval Date	Errata	Impending Annulment Date	Annulled Date/Supersedes
2478-1	3-13-2019	...	...	...
2481-1	11-17-2016	...	...	...
2489	2-22-2005	...	...	...
2493-1	9-12-2017	...	...	...
2494-2	3-28-2017	...	...	...
2496-4	9-30-2018	...	...	...
2498	6-20-2008	...	...	...
2500	11-2-2004	...	...	...
2511	8-3-2005	...	...	...
2512	10-27-2005	...	...	...
2514-1	7-7-2006	...	...	...
2516	8-3-2005	...	1-1-2026	...
2518-2	12-8-2014	...	...	...
2520	8-4-2006	...	...	...
2527	4-26-2007	...	...	...
2529	10-27-2005	...	...	...
2537	10-27-2005	...	...	...
2538	1-19-2006	...	...	...
2540-2	5-12-2024	...	...	...
2544-2	1-26-2009	...	...	...
2554	1-3-2006	...	...	...
2556-2	9-15-2009	...	...	...
2563	12-30-2006	...	...	...
2565	12-30-2006	...	...	...
2568-1	R12-21-2016	...	...	...
2571-1	1-26-2009	...	1-1-2024	...
2576	12-30-2006	...	...	...
2577	10-2-2008	...	...	...
2581	4-26-2007	...	...	...
2585-1	9-15-2009	...	1-1-2026	...
2587	8-6-2007	...	...	...
2588	10-19-2007	...	...	...
2594-2	9-30-2018	...	...	...
2595	1-4-2008	...	...	...
2596-1	4-6-2011	...	...	...
2597	5-21-2008	...	...	...
2598	1-29-2008	...	...	...
2603-2	4-15-2017	...	...	...
2604	10-2-2008	...	...	...
2605-4	7-24-2019	...	...	...
2606	1-26-2009	...	...	...
2607	1-26-2009	...	...	...
2608	1-26-2009	...	...	...
2609	1-26-2009	...	...	...
2610	1-26-2009	...	...	...
2611	1-26-2009	...	...	...
2613	1-30-2009	...	...	...
2616-1	9-23-2013	...	...	...
2617	5-9-2009	...	...	...
2618	7-5-2009	...	...	...
2619	6-24-2009	...	...	...

Case	Approval Date	Errata	Impending Annulment Date	Annulled Date/Supersedes
2620-3	10-6-2019	...	...	...
2624-1	12-2-2019	...	...	...
2627	9-30-2009	...	...	...
2628	9-30-2009	...	1-1-2026	...
2629	1-13-2010	...	...	...
2630	1-13-2010	...	...	...
2631	12-14-2009	...	...	...
2632	10-21-2009	...	...	...
2634	12-14-2009	...	...	...
2636	1-13-2010	...	...	...
2639	1-20-2010	...	...	...
2640-1	1-20-2011	...	...	...
2641	12-14-2009	...	...	...
2643-1	10-6-2019	...	...	...
2645	3-10-2010	...	...	...
2649	7-2-2010	...	...	...
2652-1	6-23-2014	...	...	...
2653-1	3-5-2018	...	...	...
2655-1	1-8-2024	...	...	...
2658	9-8-2010	...	...	...
2659	9-8-2010	...	...	...
2660	9-8-2010	...	...	...
2661-2	4-23-2019	...	...	...
2663	12-7-2010	...	...	...
2665-1	7-13-2011	...	...	...
2666	1-12-2011	...	...	...
2668-1	1-31-2017	...	...	...
2671-2	12-18-2018	...	...	...
2672	6-16-2011	...	...	...
2673	6-16-2011	...	...	...
2674-1	9-30-2018	...	...	...
2675-1	8-30-2022	...	...	...
2676	6-16-2011	...	...	...
2677	4-6-2011	...	...	...
2678-1	9-26-2011	...	...	...
2679	6-16-2011	...	...	...
2680	6-16-2011	...	...	...
2681-1	9-30-2018	...	...	...
2682	7-13-2011	...	...	...
2683	7-13-2011	...	...	...
2684-5	8-1-2018	...	...	...
2686	8-5-2011	...	...	...
2687-1	12-18-2017	...	...	...
2688	8-19-2011	...	...	...
2690-1	10-2-2014	...	...	...
2692-1	2-3-2025	...	...	2692
2693-1	4-4-2012	...	...	...
2694	9-26-2011	...	...	...
2696	7-13-2011	...	...	...
2697-1	8-1-2016	...	...	...
2698-2	4-2-2020	...	1-1-2026	...

Case	Approval Date	Errata	Impending Annulment Date	Annulled Date/Supersedes
2701-2	4-16-2024	...	...	...
2702-8	1-27-2024	...	...	...
2703-1	8-1-2018	...	...	...
2704	9-26-2011	...	...	...
2705	8-9-2011	...	...	...
2706	11-7-2011	...	...	...
2707	11-7-2011	...	...	...
2708	11-7-2011	...	...	...
2711-1	9-30-2018	...	...	...
2712-2	1-24-2022	...	...	...
2715	2-13-2012	...	...	...
2718	3-21-2012	...	...	...
2719	4-4-2012	...	...	...
2720	4-4-2012	...	...	...
2721	4-4-2012	...	...	...
2722-1	10-25-2012	...	...	...
2723	4-4-2012	...	...	...
2724	4-4-2012	...	...	...
2725-1	10-6-2020	...	...	...
2726	5-24-2012	...	...	...
2727-1	9-30-2018	...	...	...
2728-1	9-30-2018	...	...	...
2729-2	4-3-2019	...	...	...
2730	6-28-2012	...	...	...
2731	5-16-2012	...	...	...
2733-3	8-1-2018	...	...	...
2734-3	8-1-2018	...	...	...
2735	9-25-2012	...	...	...
2736-2	6-23-2014	...	...	...
2737-2	9-30-2018	...	...	...
2738	9-25-2012	...	...	...
2739	9-25-2012	...	...	...
2740-1	9-30-2018	...	...	...
2741	8-15-2012	...	...	...
2742	8-29-2012	...	...	...
2743	8-29-2012	...	...	...
2744	8-29-2012	...	...	...
2745-1	7-29-2014	...	...	...
2746	8-29-2012	...	...	...
2747	8-29-2012	...	...	...
2748-2	9-30-2018	...	...	...
2749-2	9-30-2018	...	...	...
2750	12-12-2012	...	...	...
2751	12-12-2012	...	...	...
2752-1	5-30-2019	...	...	...
2753-1	3-13-2019	...	...	...
2754	12-12-2012	...	...	...
2755	12-18-2012	...	...	...
2756	1-7-2013	...	...	...
2757-2	7-15-2021	...	...	...
2758	1-10-2013	...	...	...

Case	Approval Date	Errata	Impending Annulment Date	Annulled Date/ Supersedes
2759	1-10-2013	...	...	...
2760-1	12-12-2019	...	...	...
2761-1	11-7-2017	...	...	...
2763-2	11-29-2022	...	...	...
2765-2	1-8-2024	...	...	...
2767	6-18-2013	...	...	...
2770-1	11-2-2021	...	...	...
2771	6-18-2013	...	...	...
2772	6-18-2013	...	...	...
2773	8-27-2013	...	...	...
2774	9-18-2013	...	...	...
2775	9-18-2013	...	...	...
2776	9-18-2013	...	...	...
2777-1	9-30-2018	...	...	...
2778	9-18-2013	...	...	...
2779	9-18-2013	...	...	...
2780-1	6-1-2015	...	...	...
2781-3	5-12-2024	...	...	...
2782	10-23-2013	...	...	...
2783	9-28-2013	...	...	...
2784	11-1-2013	...	...	...
2786	11-1-2013	...	...	...
2787-2	9-19-2024	...	...	...
2789-1	9-19-2022	...	...	...
2790	11-1-2013	...	...	...
2791	1-6-2014	...	...	...
2792	1-23-2014	...	...	...
2793	3-18-2014	...	...	...
2794	3-18-2014	...	...	...
2795	3-18-2014	...	...	...
2797	3-18-2014	...	1-1-2026	...
2798	4-1-2014	...	...	...
2799-1	6-26-2018	...	...	...
2801-2	1-8-2024	...	...	...
2802-2	1-8-2024	...	...	...
2803	5-19-2014	...	...	...
2804	6-23-2014	...	...	...
2805	5-14-2014	...	...	...
2806	6-23-2014	...	...	...
2807-1	12-30-2018	...	...	...
2808-1	4-29-2022	...	...	...
2809	10-2-2014	...	...	...
2810	10-2-2014	...	...	...
2811	11-14-2014	...	...	...
2812	12-31-2014	...	...	...
2813	1-12-2015	...	...	...
2814	1-8-2015	...	...	...
2815-1	9-30-2018	...	...	...
2816	1-8-2015	...	...	...
2817	1-8-2015	...	...	...
2820	11-29-2014	...	...	...

Case	Approval Date	Errata	Impending Annulment Date	Annulled Date/ Supersedes
2821	2-24-2015	...	...	...
2822-2	12-11-2017	...	...	...
2823-1	12-18-2017	...	...	...
2824	3-23-2015	...	...	...
2825	3-6-2015	...	...	...
2826-1	8-14-2018	...	...	...
2827-2	6-29-2018	...	...	...
2830	6-1-2015	...	...	...
2831-1	9-30-2018	...	...	...
2832	7-21-2015	...	...	...
2833	7-15-2015	...	...	...
2834	7-15-2015	...	...	...
2835	9-15-2015	...	...	...
2836-4	1-6-2022	...	...	...
2837	9-15-2015	...	...	...
2838	9-15-2015	...	...	...
2839-2	5-4-2022	...	...	...
2840-1	9-30-2018	...	...	...
2841	2-17-2016	...	...	...
2843-3	6-27-2023	...	...	...
2844	12-9-2015	...	...	...
2847-1	12-12-2019	...	...	...
2848	1-20-2016	...	...	...
2849	1-20-2016	...	...	...
2851	2-9-2016	...	...	...
2853	3-30-2015	...	...	...
2857	5-2-2016	...	...	...
2859	6-17-2016	...	...	...
2860	9-1-2016	...	...	...
2861	9-1-2016	...	...	...
2864-3	8-8-2022	...	...	...
2865	9-30-2016	...	...	...
2866	9-30-2016	...	...	...
2867-3	12-7-2020	...	...	...
2868-1	3-20-2018	...	...	3-30-2025
2869-1	12-2-2024	...	...	2869
2870-2	1-2-2024	...	...	...
2871-1	3-21-2017	...	...	...
2872	11-30-2016	...	...	...
2874	11-30-2016	...	...	...
2875	11-30-2016	...	...	...
2876-1	3-21-2017	...	...	...
2877	12-12-2016	...	...	...
2878	12-22-2016	...	...	...
2879	1-10-2017	...	...	...
2880	3-21-2017	...	...	...
2881	3-8-2017	...	...	...
2882-1	7-14-2018	...	...	...
2883	4-12-2017	...	1-1-2026	...
2884	4-4-2017	...	...	...
2886	8-7-2017	...	...	...

Case	Approval Date	Errata	Impending Annulment Date	Annulled Date/Supersedes
2887-2	4-16-2024	...	...	...
2888	8-24-2017	...	...	...
2889	7-6-2017	...	...	...
2890-4	5-12-2024	...	...	...
2892	10-13-2017	...	...	...
2893	10-16-2017	...	...	...
2894	10-16-2017	...	...	...
2895	10-16-2017	...	...	...
2896	8-9-2017	...	...	...
2897-1	12-18-2018	...	...	...
2898-1	6-19-2019	...	...	...
2899-1	6-19-2019	...	...	...
2900-1	6-19-2019	...	...	...
2901-1	1-8-2024	...	...	...
2902	12-12-2017	...	...	...
2903-1	12-7-2020	...	...	...
2904	12-18-2017	...	1-1-2026	...
2905	12-11-2017	...	...	...
2906	12-21-2017	...	...	...
2907	12-11-2017	...	...	...
2909-1	7-2-2019	...	...	...
2910	3-5-2018	...	...	...
2911-1	2-7-2023	...	...	...
2912	3-5-2018	...	...	...
2914	3-5-2018	...	...	...
2916	4-6-2018	...	...	...
2917	6-19-2019	...	...	...
2918	1-18-2018	...	...	...
2919-1	8-5-2022	...	...	...
2920	1-18-2018	...	...	...
2921	5-7-2018	...	...	...
2924	9-30-2018	...	...	...
2926	9-19-2018	...	...	...
2927	8-1-2018	...	...	...
2928	9-19-2018	...	...	...
2929	8-1-2018	...	...	...
2930	8-24-2018	...	...	...
2931	8-24-2018	...	...	...
2932	9-17-2018	...	...	...
2933	10-2-2018	...	...	...
2934	10-2-2018	...	...	...
2936	9-30-2018	...	...	...
2937	12-7-2018	...	...	...
2938-2	4-16-2024	...	...	...
2939	12-17-2018	...	...	...
2941	12-17-2018	...	...	...
2942	12-18-2018	...	...	...
2943	12-30-2018	...	...	...
2946-1	6-8-2020	...	...	...
2947	1-7-2019	...	...	...
2949-1	9-14-2020	...	...	...

Case	Approval Date	Errata	Impending Annulment Date	Annulled Date/ Supersedes
2951	3-13-2019	...	...	...
2953	5-16-2019	...	...	...
2956	3-13-2019	...	...	...
2957	4-12-2019	...	...	...
2958	7-2-2019	...	...	...
2959-1	6-24-2021	...	...	3-30-2025
2960	6-19-2019	...	...	...
2961	6-19-2019	...	...	...
2963	7-30-2019	...	...	...
2964	7-2-2019	...	...	...
2965	7-24-2019	...	...	...
2967	8-28-2019	...	...	...
2968	8-28-2019	...	...	...
2969-2	9-3-2020	...	...	...
2970	10-15-2018	...	...	...
2971-1	9-3-2020	...	...	...
2972	10-6-2019	...	...	...
2973	11-21-2019	...	...	...
2974	11-1-2019	...	...	...
2975	11-1-2019	...	...	...
2976	10-11-2021	...	...	...
2978	7-16-2020	...	...	...
2979	12-4-2019	...	...	...
2981	11-1-2019	...	...	...
2982-2	1-8-2024	2025 ed.	...	...
2983	12-2-2019	...	...	...
2984-1	2-8-2022	...	...	...
2985	12-12-2019	...	...	...
2986-1	7-24-2020	...	...	...
2987	1-21-2020	...	...	...
2988	1-21-2020	...	...	...
2989	1-21-2020	...	...	...
2990	3-13-2020	...	...	...
2991	3-13-2020	...	...	...
2993	3-13-2020
2995	4-2-2020
2996-1	7-15-2020
2998-1	9-15-2020
3000	6-4-2020
3001-1	5-12-2024
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3003	7-15-2020
3004	7-15-2020
3006	9-3-2020
3007	9-8-2020
3008	9-15-2020
3010	10-6-2020
3012	12-9-2020	...	...	...
3014	12-10-2020	...	...	...
3016	1-28-2021	...	...	...
3017	2-23-2021	...	...	...

Case	Approval Date	Errata	Impending Annulment Date	Annulled Date/Supersedes
3018	3-16-2021
3020	5-24-2021
3021	4-12-2021	12-28-2024
3022-1	1-8-2024
3023	6-24-2021
3024	7-22-2021
3025	6-24-2021
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3060	9-2-2022
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3062	11-29-2022
3063-1	1-8-2024
3064	12-21-2022
3065	1-2-2023
3066	12-7-2022
3067	12-12-2022
3068-1	9-25-2024
3069	1-23-2023
3070	2-7-2023	...	1-1-2026	...

Case	Approval Date	Errata	Impending Annulment Date	Annulled Date/Supersedes
3071	4-23-2023	...	...	...
3072	4-27-2023	...	...	...
3073	4-23-2023	...	...	...
3074	6-1-2023	...	...	...
3075	12-8-2022	...	...	...
3076	6-27-2023	...	...	...
3077	8-7-2023	...	...	...
3078-1	12-10-2024	...	...	3078
3079	9-18-2023	...	1-1-2026	...
3080	10-9-2023	...	...	...
3081	12-18-2023	...	...	...
3082	12-18-2023	...	...	...
3083	1-8-2024	...	...	...
3084	1-8-2024	...	...	...
3085	1-23-2024
3086	1-8-2024
3087	3-28-2024
3088	3-28-2024
3089	7-14-2024
3090	8-28-2024
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3092	9-19-2024
3093	9-19-2024
3094	11-23-2024
3095	12-2-2024
3096	12-4-2024
3097	12-9-2024
3098	12-6-2024	...	...	...
3099	12-4-2024	...	...	...
3100	12-10-2024	...	...	...
3101	12-4-2024	...	...	...
3102	12-4-2024	...	...	...