

TR Number	2021-44
Primary	GMA G-192-1A
Purpose	Update GMA G-192-1A to reflect the IBRs published since 2018.
Origin/Rationale	Lists all the IBR's over time and has not been updated since 2018. Needs to be updated to reflect new IBRs.
Notes	<i>Executive – moved scope of 24-18 into this TR.</i> For 192.7 and GMA G-192-1A: Review, revise, and update GM in light of Amdt 192-135 for incorporated by reference standards. (added July 2024)
Assigned To	Editorial Section

Note: Revisions are shown in **yellow highlight** and **red font**.

GUIDE MATERIAL APPENDIX G-192-1A

(See guide material under §§192.7 and 192.144)

EDITIONS OF MATERIAL SPECIFICATIONS, CODES, AND STANDARDS PREVIOUSLY INCORPORATED BY REFERENCE IN THE REGULATIONS

Asterisk (*) marked entries show documents no longer included for reference in §192.7.

[Editorial Note: Several sections of the existing GMA have been moved to align with current order of §192.7. See the red font revisions to the section lettering below.]

A-B American Petroleum Institute (API)

- (1) API RP 5L1, Recommended Practice for Railroad Transportation of Line Pipe (1967, 1972, 1990, 2002).
- (2) API RP 5LW, Transportation of Line Pipe on Barges and Marine Vessels (1996).
- (3)* API Spec 5A, API Specification for Casing, Tubing, and Drill Pipe (1968, 1971, 1973, + Supp. 1, 1979).
- (4) API Spec 5L, Specification for Line Pipe (1967, 1970, 1971 + Supp. 1, 1975, 1980, 1985, 1988, 1992, 1995, 2000, 2004, 2007 with Add. 2009, 2013).
- (5)* API Spec 5LS, API Specification for Spiral-Weld Line Pipe (1967, 1970, 1971 + Supp. 1, 1973 + Supp. 1, 1975 + Supp. 1, 1977, 1980). (Combined with 5L 3/31/82).
- (6)* API Spec 5LX, API Specification for High-Test Line Pipe (1967, 1970, 1971 + Supp. 1, 1973 + Supp. 1, 1975 + Supp. 1, 1977, 1980). (Combined with 5L 3/31/82).
- (7)* API Spec 6A, API Specification for Wellhead and Christmas Tree Equipment (1968, 1974, 1979).
- (8) API Spec 6D, Specification for Pipeline Valves (Gate, Plug, Ball and Check Valves) (1968, 1974, 1977, 1991, 1994, 2002, 2008 with Errata 1-6 & Addenda 1-3).
- (9) API Std 1104, Welding of Pipelines and Related Facilities (1968, 1973, 1980, 1988, 1994, 1999, 2005 with Errata 1-2 & Addendum).

B-D American National Standards Institute, Inc. (ANSI), ANSI/The American Society of Mechanical Engineers (ASME), or The American Society of Mechanical Engineers (ASME)

- (1)* ANSI A21.1, Thickness Design of Cast-Iron Pipe (1967, 1972) (Discontinued and not replaced).
- (2)* ANSI A21.3, Specification for Cast-Iron Pit Cast Pipe for Gas (1953) (Discontinued and not

replaced).

- (3)* ANSI A21.7, Cast-Iron Pipe Centrifugally Cast in Metal Molds for Gas (1962) (Discontinued and not replaced).
- (4)* ANSI A21.9, Cast-Iron Pipe Centrifugally Cast in Sand-Lined Molds for Gas (1962) (Discontinued and not replaced).
- (5)* ANSI A21.11, Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings (1964, 1972, 1979) (Discontinued as ANSI 21.11; however, see AWWA C111/ANSI 21.11 in 1.7 Fittings – Miscellaneous of GMA G-192-1).
- (6)* ANSI A21.50, Thickness Design of Ductile-Iron Pipe (1965, 1971, 1976) (Discontinued and not replaced).
- (7)* ANSI A21.52, Ductile-Iron Pipe, Centrifugally Cast, for Gas (1965, 1971, 1976) (Discontinued and not replaced).
- (8) ANSI B16.1, Cast-Iron Pipe Flanges and Flanged Fittings (1967, 1975, 1989, 1998).
- (9) ANSI B16.5, Steel Pipe Flanges and Flanged Fittings (1968, 1973, 1977, 1988 with October 1988 Errata and B16.5a-1992 Addenda, 1996 and B16.5a-1998 Addenda).
- (10)* ANSI B16.24, Cast Copper Alloy Pipe Flanges and Flanged Fittings (1962, 1971, 1979) (Source: ASME B16.24).
- (11) ASME B31.8, Gas Transmission and Distribution Piping Systems (1995, 2007).
- (12) ASME B31.8S, Supplement to B31.8 on Managing System Integrity of Gas Pipelines (2001 Edition/2002 Publication).
- (13)* ANSI B36.10, Welded and Seamless Wrought Steel Pipe (1959, 1970, 1979, removed in 1989 {Note: current version in §192.7 (2018) was added to §192.7 in 2024}).
- (14)* ANSI C1, National Electrical Code (1968, 1975) (See NFPA 70 for subsequent editions).
- (15)* ANSI C101-67, Thickness Design of Cast Iron Pipe (1977) (Discontinued and not identified by ANSI; however, see AWWA C101 in 1.1 Pipe – Metallic of Appendix G-192-1).
- (16) ASME Boiler and Pressure Vessel Code, Section I, Power Boilers (1992 with Interpretations, 1995 with Addenda, 1998, 2004 with Addenda).
- (17) ASME Boiler and Pressure Vessel Code, Section VIII, Pressure Vessels, Division 1 (1968, 1974, 1977, 1992 with Interpretations, 1995 with Addenda, 2001, 2004 with Addenda).
- (18) ASME Boiler and Pressure Vessel Code, Section VIII, Pressure Vessels, Division 2 Alternative Rules (1992 with Interpretations, 1995 with Addenda, 2001, 2004 with Addenda).
- (19) ASME Boiler and Pressure Vessel Code, Section IX, Welding and Brazing Qualifications (1968, 1974, 1977, 1992 with Interpretations, 1995 with Addenda, 2001, 2004 with Addenda).

C American Society for Nondestructive Testing (ASNT)

[Reserved]

D-C American Society for Testing and Materials (ASTM)

- (1) ASTM A53, Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless (1965, 1968, 1973, 1979, 1990b, 1995a, 1996, 1999b, 2004, 2007, 2010).
- (2)* ASTM A72, Standard Specification for Welded Wrought-Iron Pipe (1964T, 1968) (Discontinued and not replaced).
- (3) ASTM A106, Standard Specification for Seamless Carbon Steel Pipe for High-Temperature Service, (1966, 1968, 1972a, 1979b, 1991, 1994a, 1995, 1999, 2004, 2008, 2010).
- (4)* ASTM A134, Standard Specification for Pipe, Steel, Electric-Fusion (Arc)-Welded (Sizes NPS 16 and Over) (1964, 1968, 1973, 1974).
- (5)* ASTM A135, Standard Specification for Electric-Resistance-Welded Steel Pipe (1963T, 1968, 1973a, 1979).
- (6)* ASTM A139, Standard Specification for Electric-Fusion (Arc)-Welded Steel Pipe (NPS 4 and Over) (1964, 1968, 1973, 1974).
- (7)* ASTM A155, Standard Specification for Electric-Fusion-Welded Steel Pipe for High-Pressure Service (1965, 1968, 1972a). (Discontinued and replaced by A671, A672 and A691).
- (8)* ASTM A211, Standard Specification for Spiral-Welded Steel or Iron Pipe (1963, 1968, 1973, 1975)

(Discontinued and not replaced).

- (9) ASTM A333, Standard Specification for Seamless and Welded Steel Pipe for Low-Temperature Service (1964, 1967, 1973, 1979, 1991a, 1994, 1999, 2005, 2011).
- (10) ASTM A372, Standard Specification for Carbon and Alloy Steel forgings for Thin-Walled Pressure Vessels (1967, 1971, 1978, 1991a, 1995, 1999, 2003-reapproved 2008).
- (11)* ASTM A377, Standard Index of Specifications for Grey Iron and Ductile Iron Pressure Pipe (1966, 1973, 1979).
- (12) ASTM A381, Standard Specification for Metal-Arc-Welded Steel Pipe for Use with High-Pressure Transmission Systems (1966, 1968, 1973, 1979, 1989, 1993, 1996-reapproved 2001, -reapproved 2005).
- (13)* ASTM A539, Standard Specification for Electric-Resistance-Welded Coiled Steel Tubing for Gas and Fuel Oil Lines (1965, 1973, 1979) (Discontinued and replaced by ASTM A450).
- (14) ASTM A671, Standard Specification for Electric-Fusion-Welded Steel Pipe for Atmospheric and Lower Temperatures (1977, 1989a, 1994, 1996, 2004, 2006, 2010).
- (15) ASTM A672, Standard Specification for Electric-Fusion-Welded Steel Pipe for High-Pressure Service at Moderate Temperatures (1979, 1989b, 1994, 1996, 2008).
- (16) ASTM A691, Standard Specification for Carbon and Alloy Steel Pipe, Electric-Fusion-Welded for High-Pressure Service at High Temperatures (1979, 1989a, 1993, 1998-reapproved 2002, -reapproved 2007, 2009).
- (17)* ASTM B42, Standard Specification for Seamless Copper Pipe, Standard Sizes (1962, 1966, 1972, 1980).
- (18)* ASTM B68, Standard Specification for Seamless Copper Tube, Bright Annealed (1965, 1968, 1973, 1980).
- (19)* ASTM B75, Standard Specification for Seamless Copper Tube (1965, 1968, 1973, 1980).
- (20)* ASTM B88, Standard Specification for Seamless Copper Water Tube (1966, 1972, 1980, 1999).
- (21)* ASTM B251, Standard Specification for General Requirements for Wrought Seamless Copper and Copper-Alloy Tube (1966, 1968, 1972, 1976).
- (22) ASTM D638, Standard Test Method for Tensile Properties of Plastics (1977a, 1991, 1995, 1996, 1999).
- (23) ASTM D2513, Standard Specification for Thermoplastic Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings (1966T, 1968, 1970, 1971, 1973, 1974a, 1978ES, 1981, 1987 except for §192.63(a)(1), 1990c, 1995c, 1996, 1999, 2009a). {Note: In the 1999 edition and prior editions, "Thermoplastic" instead of "Polyethylene" in title.}
- (24) ASTM D2517, Standard Specification for Reinforced Epoxy Resin Gas Pressure Pipe and Fittings (1966T, 1967, 1973, 1981-reapproved 1987, 1994).
- (25) ASTM F1055, Standard Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene Pipe and Tubing (1995).

E Gas Technology Institute (GTI)

- (1)* GRI 02/0057, Internal Corrosion Direct Assessment of Gas Transmission Pipelines Methodology (2002).

F-E Manufacturers Standardization Society of the Valves and Fittings Industry, Inc. (MSS)

- (1)* MSS SP-25, Standard Marking System for Valves, Fittings, Flanges, and Unions (1964, 1978).
- (2) MSS SP-44, Steel Pipeline Flanges (1955, 1972, 1975, 1991, 1996, 2006, 2010 with 2011 errata).
- (3)* MSS SP-52, Cast-Iron Pipe Line Valves (1957) (Discontinued and not replaced).
- (4)* MSS SP-70, Cast-Iron Gate Valves, Flanged and Threaded Ends (1970, 1976).
- (5)* MSS SP-71, Cast-Iron Swing Check Valves, Flanged and Threaded Ends (1970, 1976).
- (6)* MSS SP-78, Cast-Iron Plug Valves, Flanged and Threaded Ends (1972, 1977).

G-H NACE International (NACE)

- (1) NACE Standard RP (later SP) 0502, Pipeline External Corrosion Direct Assessment Methodology (2002, 2008).

H-F National Fire Protection Association (NFPA) or ANSI/National Fire Protection Association (NFPA)

- (1) NFPA 30, Flammable and Combustible Liquids Code (1969, 1973, 1977, 1990, 1993, 1996, 2003, 2008).
- (2) NFPA 58, Liquefied Petroleum Gas Code (1969, 1972, 1979, 1992, 1995, 1998, 2004).
- (3) NFPA 59, Standard for the Storage and Handling of Liquefied Petroleum Gases at Utility Gas Plants (1968, 1979, 1992, 1995, 1998, 2004).
- (4)* NFPA 59A, Production, Storage and Handling of Liquefied Natural Gas (1971, 1972, 1979).
- (5) NFPA 70, National Electrical Code (1978, 1993, 1996, 2005, 2008, 2011) (See ANSI C1 for prior editions).

I-A Pipeline Research Council International, Inc. (PRCI)

[Reserved]

J-G Plastic Pipe Institute, Inc. (PPI)

- (1) PPI TR-3, Policies and Procedures for Developing Hydrostatic Design Basis (HDB), Pressure Design Basis (PDB), Strength Design Basis (SDB), and Minimum Required Strength (MRS) Ratings for Thermoplastic Piping Materials (2000, 2004).