APPENDIX E—MANDATORY PERMITTED SWPSs

The following Standard Welding Procedure Specifications may be used under the conditions given in Article V.

Specification	Designation
Carbon Steel	
Shielded Metal Arc Welding	
Standard Welding Procedure Specification for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), $\frac{1}{8}$ through $1\frac{1}{2}$ inch Thick, E7018, As-Welded or PWHT Condition	B2.1-1-016-94
Standard Welding Procedure Specification for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), $\frac{1}{8}$ through $1\frac{1}{2}$ inch Thick, E6010, As-Welded or PWHT Condition	B2.1-1-017-94
Standard Welding Procedure Specification for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), $\frac{1}{8}$ through $1\frac{1}{2}$ inch Thick, E6010 (Vertical Uphill) Followed by E7018, As-Welded or PWHT Condition	B2.1-1-022-94
Standard Welding Procedure Specification for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), $\frac{1}{8}$ through $1\frac{1}{2}$ inch Thick, E6010 (Vertical Downhill) Followed by E7018, As-Welded or PWHT Condition	B2.1-1-026-94
Combination GTAW and SMAW	
Standard Welding Procedure Specification for Gas Tungsten Arc Welding Followed by Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), $\frac{1}{8}$ through $1\frac{1}{2}$ inch Thick, ER70S-2 and E7018, As-Welded or PWHT Condition	B2.1-1-021-94
Carbon Steel — Primarily Pipe Applications	
Shielded Metal Arc Welding	
Standard Welding Procedure Specification (WPS) for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), $\frac{1}{8}$ through $\frac{3}{4}$ inch Thick, E6010 (Vertical Uphill) Followed by E7018 (Vertical Uphill), As-Welded Condition, Primarily Pipe Applications	B2.1-1-201-96
Standard Welding Procedure Specification (WPS) for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), $\frac{1}{8}$ through $\frac{3}{4}$ inch Thick, E6010 (Vertical Downhill) Followed by E7018 (Vertical Uphill), As-Welded Condition, Primarily Pipe Applications	B2.1-1-202-96
Standard Welding Procedure Specification (WPS) for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), $\frac{1}{8}$ through $\frac{3}{4}$ inch Thick, E6010 (Vertical Uphill), As-Welded Condition, Primarily Pipe Applications	B2.1-1-203-96
Standard Welding Procedure Specification (WPS) for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), $\frac{1}{8}$ through $\frac{3}{4}$ inch Thick, E6010 (Vertical Downhill Root with the Balance Vertical Uphill), As-Welded Condition, Primarily Pipe Applications	B2.1-1-204-96
Standard Welding Procedure Specification (WPS) for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), $\frac{1}{8}$ through $1\frac{1}{2}$ inch Thick, E6010 (Vertical Uphill) Followed by E7018 (Vertical Uphill), As-Welded or PWHT Condition, Primarily Pipe Applications	B2.1-1-205-96

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Specification	Designation
Carbon Steel — Primarily Pipe Applications (cont'd)	
Standard Welding Procedure Specification (WPS) for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), $\frac{1}{8}$ through $1\frac{1}{2}$ inch Thick, E6010 (Vertical Downhill) Followed by E7018 (Vertical Uphill), As-Welded or PWHT Condition, Primarily Pipe Applications	B2.1-1-206-96
Standard Welding Procedure Specification (WPS) for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), $\frac{1}{8}$ through $1\frac{1}{2}$ inch Thick, E7018, As-Welded or PWHT Condition, Primarily Pipe Applications	B2.1-1-208-96
Gas Tungsten Arc Welding	
Standard Welding Procedure Specification (WPS) for Gas Tungsten Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), $\frac{1}{8}$ through $1\frac{1}{2}$ inch Thick, ER70S-2, As-Welded or PWHT Condition, Primarily Pipe Applications	B2.1-1-207-96
Combination GTAW and SMAW	
Standard Welding Procedure Specification (WPS) for Gas Tungsten Arc Welding Followed by Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), $\frac{1}{8}$ through $1\frac{1}{2}$ inch Thick, ER70S-2 and E7018, As-Welded or PWHT Condition, Primarily Pipe Applications	B2.1-1-209-96
Austenitic Stainless Steel Plate and Pipe	
Shielded Metal Arc Welding	
Standard Welding Procedure Specification for Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), $\frac{1}{8}$ through $1\frac{1}{2}$ inch Thick, As-Welded Condition	B2.1-1-023-94
Austenitic Stainless Steel Primarily Pipe Applications	
Shielded Metal Arc Welding	
Standard Welding Procedure Specification (WPS) for Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), $\frac{1}{8}$ through $1\frac{1}{2}$ inch Thick, E3XX-XX, As-Welded Condition	B2.1-8-213-97
Gas Tungsten Arc Welding	
Standard Welding Procedure Specification (WPS) for Gas Tungsten Arc Welding, with Consumable Insert of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), $\frac{1}{8}$ through $1\frac{1}{2}$ inch Thick, IN3XX and ER3XX, As-Welded Condition	B2.1-8-215-98

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