

*****DRAFT - NOT FOR FILING*****

1301:3-4-05 Repairs and alterations. NO CHANGE

- (A) All welded repairs or alterations to any historical boiler subject to inspection in accordance with sections 4104.32 to 4104.37 of the Revised Code shall be made by a person certified as a welder in accordance with the 2004 edition of American society of mechanical engineers section IX, welding and brazing qualifications, published July 1, 2004, a publication of general availability in the industry.
- (B) All welded or riveted repairs or any alteration to any historical boiler subject to inspection in accordance with sections 4104.32 to 4104.37 of the Revised Code shall be made using the materials as shown on the following table;

Materials for welded or riveted repairs and alterations

Application	Material Specification
Boiler Tubes and Flues, Arch Tubes, Superheated Units	SA-178 Grade A Tube, SA-192 Tube, SA 210 Tube
Boiler and Firebox Plate	SA-285 Grade C Plate, SA 515 Plate, SA 516 Plate, SA-203 Plate, SA-204 Plate
Staybolts	SA-675 Bar, SA-36 Bar, ASTM A-31-95 Bar
Staybolts Sleeves and Caps	SA-105 Forged Pipe Fittings, SA-675 Bar
Boiler Braces	SA-675 Bar, SA-36 Bar
Rivets	SA-675 Bar, ASTM A-31-95 Bar
Forged Part and Fittings	SA-105 Forged Pipe Fittings, SA-181 Forged Pipe Fittings
Pressure Retaining Steel Castings	SA-216 Steel Casting, SA-217 Steel Casting
Hollow Cylindrical Pressure Retaining Parts	SA-105 Forged Pipe Fittings, SA-675 Bar
Superheater Unit Bolts and Nuts	SA-193 Bolts, SA-194 Nuts
Pipe Flanges	SA-181 Forged Pipe Fittings, SA-105 Forged Pipe Fittings
Pipe	SA-106 Pipe, SA-53 Seamless Pipe
Bronze Castings and Washout Plugs	SB-61 Bronze Cast Fittings, SB-62 Bronze Cast Fittings

- (C) All welded or riveted repairs or any alteration to any historical boiler subject to inspection in accordance with sections 4104.32 to 4104.37 of the Revised Code shall be made in conformity with or shall exceed generally accepted engineering standards in place at the time of original construction or current standards.