

**QW-482 SUGGESTED FORMAT FOR WELDING PROCEDURE SPECIFICATION (WPS)**

(See QW-200.1, Section IX, ASME Boiler &amp; Pressure Vessel Code)

Company Name: XYZ COMPANY By: JOE BLOW  
Welding Procedure Spec. No.: GMAW-2 Date: 2-29-92 Supporting PQR No. (s): GMAW-2  
Revision No.: 0 Date: 2-29-92  
Welding Process(s): GMAW (SHORT ARC) Type(s): SEMI-AUTO  
(Automatic, Manual, Machine, or Semi-Auto)

**JOINTS (QW-402)**

Details

Joint Design: SINGLE VEE GROOVEBacking: (Yes) \_\_\_\_\_ (No) XBacking Material: (Type): NONE  
(Refer to both backing & retainers)

- Metal
- Nonmetallic
- Nonfusing Metal
- Other

Sketches, Production Drawings, Weld Symbols or Written Description should show the general arrangement of the parts to be welded. Where applicable, the root spacing and the details of weld groove may be specified.

(At the option of the Mfr., Sketches may be attached to illustrate joint design, weld layers, and the bead sequence, e.g. for notch toughness procedures, for multiple process procedures, etc.)

**\*BASE METALS (QW-403)**P-No. 1 Group No. 1 to P-No. 1 Group No. 1

OR

Specification type and grade SA-36to Specification type and grade SA-36

OR

Chem. Analysis and Mech. Prop. \_\_\_\_\_

to Chem. Analysis and Mech. Prop. \_\_\_\_\_

Thickness range:

Base Metal: Groove: 3/16" - .900" Fillet: ALLPipe Dia. Range: Groove: ALL Fillet: ALL**\*FILLER METALS (QW-404)**Spec. No. (SFA): SFA 5.18AWS No. (Class): ER70S-7Filler Metal F-No.: 6Chem. Comp. - A No.: 1Size of Filler Metals: 1/8" - 3/32"**Weld Metal**

Thickness range:

Groove: .900" MAX.Fillet: UNLIMITEDElectrode-Flux (Class): N/AFlux Trade Name: N/AConsumable Insert: N/A

Other: \_\_\_\_\_

\* Each base metal-filler metal combination should be recorded individually.

## WPS No.: GMAW-2 Rev.No.:

### ELECTRICAL CHARACTERISTICS (OW-409)

(Amps and volts ranges should be recorded for each electrode size, position, and thickness, etc. This information may be listed in a tabular form similar to that shown below.)

Tungsten Electrode Size and Type	(Pure Tungsten, 2% Thoriated, etc.)
Mode of metal Transfer for GMAW	<b>SHORT CIRCUITING</b>
Electrode Wire feed speed range	(Spray arc, short circuiting arc, etc.)

String or Weave Bead	<b>STRING</b>
Orifice or Gas Cup Size	<b>1/2"</b>
Initial and Interpass Cleaning (Brushing, Grinding, etc.)	<b>GRINDING, BRUSHING</b>

Method of Back Gouging NONE  
Oscillation REVERSE  
Contact Tube to Work Distance 1/8" - 1/4"  
Multiple or Single Pass (per side ) MULTIPLE  
Multiple or Single Electrodes SINGLE  
Travel Speed (Range) 10-15 IPM  
Peening NONE  
Other NO PASS GREATER THAN 1/2"

[illegible]