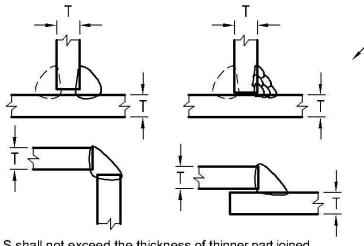
				1			
Prepared by: WPSAmerica.com		WELDING PROCEDURE SPECIFICATION (WPS)		Identification #	DEMO-SMAW		
				Ref. Code	AWS D1.1		
Company Name: www.WPS Address: info@WPSAmerica		PQR No.	PREQUALIFIED				
Process	SMAW	Process Type	Manual	Positions	Flat, Horizontal		
Base Metals		Only Steels in Category A of Table 3.2 of AWS D1.1					
Filler Metals		AWS A5.1: E6010					
Preheat/ Interpass Temp., Min		Up to 20 mm (3/4): 0 $^{\circ}$ C (32 $^{\circ}$ F) ; Table 3.2 of AWS D1.1 on requirements for larger thicknesses					
Interpass Temp., Max		N/A	Current/ Polarity	DCEP			
<b>Interpass Cleaning</b>		Chip, File, Brush and/ or Grind	Weld Type	Fillet Weld			

## Joint Details/ Joint Design Used/ Sketch:



Minimum Fillet Weld Size Table 5.8 of AWS D1.1 Weld Size, S **Thickness** Single Pass in  $T \leq \frac{1}{4}$ 

S shall not exceed the thickness of thinner part joined.

Maximum weld size (S) shall be (a) T for T <  $\frac{1}{4}$  in, (b) T -  $\frac{1}{16}$  in for T  $\geq \frac{1}{4}$  in

\* For cyclically loaded structure

## Welding Procedure:

Weld Size (S) mm (in)	Side	Weld Layers	Pass No.	Filler Diameter mm (in)	Current Amps	Alternate Filler Diameters mm (in)	Current Amps
5 mm (3/16)	1 or 2	1	1	3.2 mm (1/8)	90-140	2.4 mm (3/32)	50-85
6 mm (1/4)		1	1				
8 mm (5/16)		1, 2	1-3 (2 Flat)			4.0 mm (5/32)	120-170
10 mm (3/8)		1, 2	1-3 (2 Flat)				
12 mm (1/2)		1-3	1-6 (4 Flat)			4.8 mm (3/16)	140-215
16 mm (5/8)		1-4	1-8 (6 Flat)				
>=20 mm (3/4)		1 to 5+	1-12 (9 Flat)				

Notes, Technique or Code's rules:

-Larger size electrodes may be used for fill and/ or cap passes of the thicker material. -Smaller size electrodes usually applicable for root passes and/ or for thinner material. John Smith, Welding Engineer

Originated by:

Date: 04, 29, 2005 Revision (1)

Authorized by:

Jim Clark, Quality Manager

Date: 04, 29, 2005

Caution Note: Use of prequalified joint is not intended as a substitute for engineering judgment in the suitability of application to a welded assembly or connection.