WELDING PROCEDURE SPECIFICATON (WPS) BTC GMAW 90-10 2011					
PREQUALIFIED Per AWS D1.1 2010			QUALIFIED BY TESTING		
			Identification # GMAW 90-10 2011		
			Revision 1 Date Oct 28, By Robert Rutile 2011		
Company Name: Slagboy Enterprises			Authorized by Samuel Slaghammer Oct 28, 2011		
Welding Process(es) GMAW			Type—Manual Semi-Automatic		
JOINT DESIGN USED Butt			Machine Automatic		
Type Single Double Weld			Position		
Backing Yes No			Position of Groove Flat		
Backing Material ASTM A-36			Fillet Position/s Flat and Horizontal		
Root Opening 1/4 in.			<u> </u>		
Root Face Dimension 1/16 +0 -1/16"			Vertical Progression N/A	AAY	
Back Gouging No			vertical Progression Twit		
BASE METALS			ELECTRICAL CHARACTERISTICS		
Material Spec ASTM A 36			Transfer Mode (GMAW) N/A		
Type or Grade			Current DCEP		
Thickness: Groove 1/8" to 1" Fillet.			Tungsten Electrode Size (GTAW)		
Diameter (Pipe)			Size N/A		
Diameter (Fipe)			Type N/A		
FILLER METALS			TECHNIQUE		
AWS Specification AWS A5.18			Stringer or Weave Bead Stringer		
AWS Classification ER70S-6			Multi-pass or Single Pass (per side) Multi		
AWS Classification ER/05-0			Number of Electrodes 1		
SHIELDING Gas 90/10 Ar/Co2			Contact Tube to Work Distance 5/8 to 3/4 in.		
SHIELDING Flux: N/A Gas 90/10 Ar/Co2 Flow Rate 35 CfM					
Electrode-Flux (Class): N/A  Cup Size 5/8 in			Peening None Interpose Cleaning Oxide Removel (mechanical)		
Composition: N/A			Interpass Cleaning Oxide Removal (mechanical)		
PREHEAT	POST WELD HEAT TREATMENT				
Preheat Temp Min., 50F			Temp N/A		
Interpass Temp., Min Max 5000			Time N/A		
Interpuss Temps, with			Special instructions:		
GMAW B-U2a-GF(D).1 2010)			1. No grinding on cover pass		
$\alpha$ 70 degrees			2. Inter-pass grinding must be approved by		
R 1/4"			instructor and done in test position		
N /4			Hold points:		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			1. Inspect bevels		
			2. Inspect tack-up		
			3. Inspect root pass		
			4. Inspect cover pass  5. Inspect healing strip removal prior to outling		
→   <del>-</del> R			5. Inspect backing strip removal prior to cutting		
	straps				
WELDING PROCEDURE					
Pass or Weld Layers Process	Filler Metals	1491400	Current	Volts	Travel
GMAW	Class Dia.		Current	VOILS	Speed
GMAW	ER70S-6	Type &	Amps or Wire Feed speed	24-27	_ Speed
	0.35 in	Polarity	(IPM)		14 IPM
		DCEP	400-550 ipm		+ or –
			r		15%