CONSTRUCTION: JOINING OF PIPES BY WELDING

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STANDARD WELDING PROCEDURE SPECIFICATION # 6AH

A. Process: Manual Electric Arc

B. Material: API 5L Grade A thru X42

C. Diameter and Wall Thickness: Greater than 12" and .188 thru .500 Wall Thickness

D. Joint Design: Standard Vee Groove, 30 Degree Bevel

E. Filler Metal and Number of Beads: Electrode Classification

Electrode E6010 AWS Class A5.1, Minimum of 4 Passes

F. Electrical or Flame Characteristics: Reverse Polarity, Electrode Positive

G. Position: Fixed Horizontal

H. Direction of Welding: Vertical Down

I. Number of Welders: 1

J. Time Lapse Between Passes: Maximum of 5 minutes between stringer and hot pass; 3 minutes maximum when temperature is below 35° F.

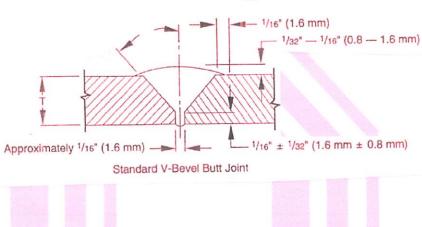
K. Type of Line-Up Clamp: External

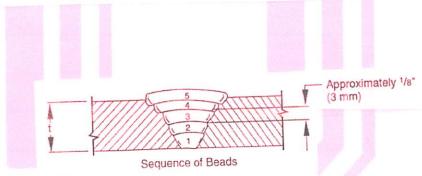
- L. Removal of Line-Up Clamp: After 50% completion of stringer bead.
- M. Cleaning: Taper grind starts and craters and flatten crown by grinding stringer bead, power buff all remaining passes.
- N. Speed of Travel: String bead 10--12 inches per minute maximum.
- O. *Preheat, Stress Relief: Maximum of 300°F. Minimum of 150°F. Preheating shall be done with device or equipment which will heat entire circumference(s) in single application 2" back from pipe ends.
- P. Notes: Welded pipe strings shall be temporarily capped to prevent air draft cooling of stringer beads. Weld shall be completely protected from moisture until it has cooled to ambient temperature. Weld zone shall be protected so that the wind velocity near it does not exceed 8 miles per hour.

*X-Rated pipe must be stress relief if the carbon content exceeds 32% or C+1/4 Mn exceeds 65%. Heating of X-Rated pipe is limited to 600°F.

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Note: Dimensions are for example only.

	Bead	Electrode	Amperage	Voltage		
	No.	Diameter	Range	Range	Type Rod	Notes
- 13	1	5/32	110-130	22-30	E6010 5P+	
100	2	5/32	115-155	22-35	E6010 5P+	
-	3	5/32	115-155	24-32	E6010 5P+	
	4	3/16	132-170	27-35	E6010 5P+	
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Bead No.			Notes	
	Additional passe	s may be made	using the	same settings as pass 4
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WEST TEXAS GAS, INC.

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⁻ Revised 2/14/08