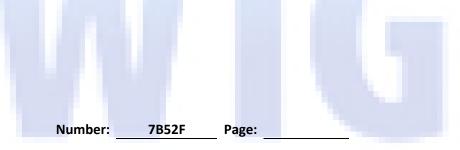
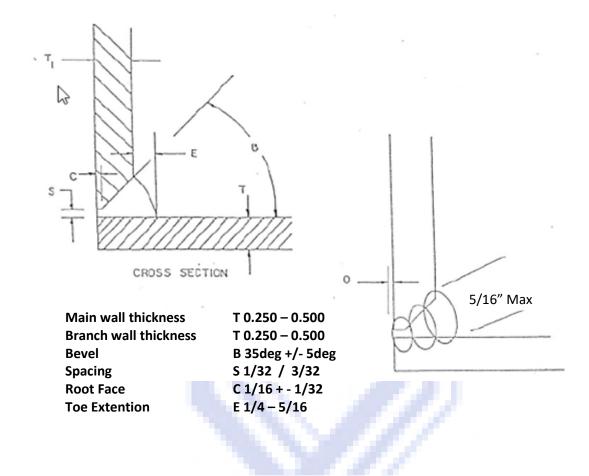
Issued: 11-18-2010 Revised: 12-13-2022 Number: 7B52F Page:

## STANDARD WELDING PROCEDURE SPECIFICATION #: 7B52F

- A. Process: Manual Electric Arc
- B. Material: Branch and Header X52 grade material
- C. Diameter and Wall Thickness: Branch and Header 8" thru 12", 0.250 thru 0.500 WT
- D. Joint Design: Standard Vee Groove FILLET WELD
- E. Filler Metal and Number of Beads: Electrode Classification Electrode E6010 & E8010 AWS Class A5.1-A5.5 Minimum of 3 Passes
- F. Electrical or Flame Characteristics: D.C. Reverse Polarity, Electrode Positive
- G. Position: Header on Horizontal-Branch 90 degrees and downward
- H. Direction of Welding: 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: None
- L. Removal of Line-up Clamp: None
- 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 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: Tacks may be made with the branch in an upward position from the header and in an area where samples will not be taken.
- \* 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.



## CONSTRUCTION: JOINING OF PIPES BY WELDING



Bead	Electrode	Amperage	Voltage		
No.	Diameter	Range	Range	Type Rod	Notes
1	1/8	90-120	22- <mark>3</mark> 5	E6010 5P+	
2	1/8	90-135	20-40	E8010	
3	5/32	90-140	20-40	E8010	
4	5/32	90-140	20-40	E8010	
5	*				

Bead									
No.	Notes								
	Electrodes may be substituted within rod group AWS A5.1-A5.5								
5	Additional passes may be made at same settings as bead #4								

WE	LD TEST R	EPORT		(USE SEPA	RATE FORM RO	UAMFYI	NGTEST	FOR	7	852F		
DATE WELDER'S NAME						SOCIAL SECURITY NUMBER						
11-18-10 Jinny -				Set			1323					
LOCATION NAME OF CONTRACTOR OR CO							REQUALIFYING TEST D					
Dalliant Brunectt Br								QUALIFYING TEST G LINE TEST C				
INCLINED CI FIXED CI FIXED CO AND				CL TO			TIME OF DAY WIND BREA			D		
PIPE SPECIFICATION PIPE MANUFACTURER			WALL THICKNESS			DIAMETER (QD) WEIGHT P			5			
AT-51 X57 Tatube			1250						3,8			
MAKE OF WELDING MACHINE SIZE MAKE OF ON			MAKE OF OX-				OX-ACETYLENE BRESSURE FLOWING			210		
Lial 200 APPARATUS			NA	VA NA			NA					
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		ELECTRODE TYPE AND SIZE			MACHINE SETTINGS AMPERA		DE RG. VOLTAGE R		AGE RG.	2	19	
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	CAP PASS	5/32 70	+		20-190	70	90-1	40	20	3-40	40	1 53
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-											1	-
	4 COUPON		/								-	-
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-	4 COUPON									10	85	
	LOCATION	REMARKS								JECTER		
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