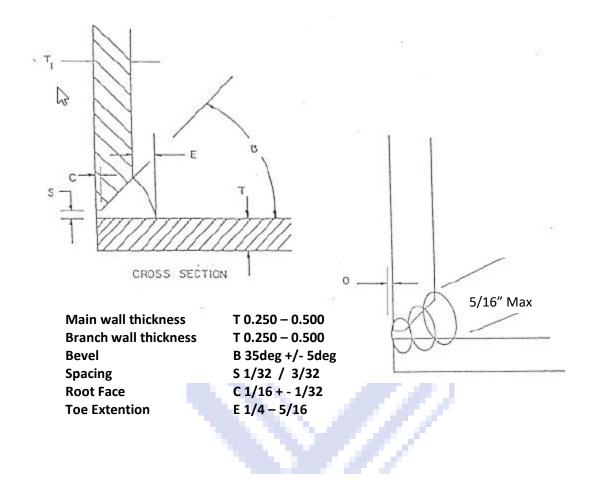
Issued: 11-18-2010 Revised: 12-13-2022 Number: 7B52F Page:

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	22-35	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 1&2 of AWS A5.1-A5.5								
5	Additional passes may be made at same settings as bead #4								

WELD TEST REPORT				(USE SEPA	RATE FORM ROA	UALIFYI	NGTEST	FOR	78	52 E			
DATE			WELDER'S NA	ME				SOCIAL SECURITY NUMBER					
11-18-10			Tin	my ~	Lsh+			1323					
LOCATION NAME OF CONTRACTOR OF			TRACTOR OR C				REQUALIFYING TEST						
	a/HAFT		ELECTRIC ARC	ICARC 12-INDOORS D WEATHER				QUALIFYING TEST			NE TEST C	1	
	INED C	FIXED E	OX-ACETYLEN					TEMPERATURE TIME OF DAY		WIND BREAK USED			
PIPE	SPECIFICATION	LUNIAL	PIPE MANUFAC	TURER		CL WALL THICKN		TO Mid SS DIAMETER (OD)		WEIGHT PER FOOT			
2AT-56 X5Z			Tatube			1250		12/				33,88	
	E OF WELDING M	IACHINE	SIZE MAKE OF OX-ACETYLENE APPARATUS			WELDING NOZZLE SIZE OX-ACETYLE			INE BRESSURE FLOWING				
			BRAND OF OX-ACETYLENE ROD AND SIZE			NUMBER OF PASSES - OX-ACETYLENE WELD			A	WELDING PROCEDURE NO.			
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		ELECTRODE T	TYPE AND SIZE	4	MACHINE SETTINGS		AMPERAGE RG.				-5	1	
	ELECTRODE TYPE AND SIZE					E RG. VOLTAGE RG.		HG.	Ľ,	1			
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	CAP PASS	5/22 72	4		20-190		90-1				<u>ک</u>	\$ 20	
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TENSILE TESTS	3												
-	4		\sim										
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					1007	Apen	-	_	+-				
restr	2												
BEND TESTS	3				-							đ	
8	4												
	COUPON LOCATION	REMARKS							AC- CEPTED	RE-			
ESTS	INIA	NIA Clean Metal, 10090 feel								V			
REAK TESTS	N25 Clern Metal 150% Pal								V	$\overline{\mathbf{b}}$			
NICK-BRE	2 11 30	N3 Clern Metal 100 02 Fer							V				
~	AUNEr Swall Glashoas OF Per							V	4				
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E	REMARKS ON TEE WELD												
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TESTED BY SIGNATURE													
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