Issued: 02-10-15 Revised: 2-2-2024 Number: F-12/12 Page:

STANDARD WELDING PROCEDURE SPECIFICATION #: F-12/12

- A. Process: Manual Electric Arc
- B. Material: Branch and Header 5L grade A thru 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 and 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 degree 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: Tracks 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 30% or C+1/4 Mn exceeds 65%. Heating of X-rated pipe is limited to 600°F.

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Bead No.	Electrode Diameter	Amperage Range	Voltage Range	Type Rod	Notes
1	1/8 5P+	90-115	25-33	E6010	
2	1/8	95-130	20-30	E8010	
3	5/32	95-130	20-30	E8010	
4	5/32	75-120	20-35	E8010	
5*					

Bead

No.		Notes	
1	Electrodes may be subs	stituted within rod group 1&2 of A	AWS A5.1 – A5.5
*	Additional passes may	be made at same setting as bead	#4
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West Texas Gas Utility, LLC

ME	ST TEXAS	GAS-WEL	D TEST RE		SEPAR	ATE FORM FOR	EACH WELDING		es Ecurity Nun		ŤG	
	2-02-	2024	WELDERS R	hri	s Edi	15		SUCIAL S		IBER		
LOCATION) NAME OF CONTI		INTRACTOR OF	TRACTOR OR COMPANY RIGHT-HANDED N			REQUALIFYING TEST D			ет П			
	5 Mamilo		ELECTRICARC DAS								LINE TEST	
B/		RIZONTAL []			OUTDOOR	a 65		1:00 Pm		No	No	
A	PI 52	X52	500	h Stee	,)	ې wall thick	TO TO		150 "	WEIGHT PERF		
MAK	E OF WELDING	MACHINE	SIZE 300	MAKE OF OX-	ACETVI ENE		ZZLE SZE	OX-ACET	LENE PRESS		For	
BRAN	ND OF ELECTR			X-ACETYLENE R		NUMBER OF F	ASSES - OX-ACE	TYLENE WE		NGPROCEDU		
	CINCO/Y			NA	MACHINES	ETTINGS	N/17 AMPERAGE	I PG	VOLTAGE R	-12-10	veld has	
		THE AND DEL			COARSE	FINE	Amr Livio		TOLINGEN	been	visually	
PIPE WELDS	STRINGER	1/8	5P+ 6	010	120-190	40	90-115	-	25-3		ted and	
R	HOT PASS	1/8	8010)	120-190	55	95-130	1	20-30	2 tes	ted in	
2	FILLER (S)	5/2°	8010		120-190	50	95-130	7	20-30		ance to	
_	CAP PASS	572	8010		120-190	45	75-12	0	20-35		= API-1104	
	COUPON LOCATION	LENGTH	WIDTH	CROSS SEC. AREA SQ.IN.	LOAD	% ELONG.	COMPUTED TENSIL PSI	RE	EMARKS	AC- CEPTED	REJECTED	
EST	1							Bia	ach	+-		
ENSILE TEST	2							1/10		+	<u> </u>	
TEN	3									+	<u> </u>	
	4 COUPON								\sim	AC-	RE-JECTER	
	LOCATION	TYPE OF BEND			REMARKS					CEPTED		
⊢	1											
BEND TEST	2					Branch			—			
BEN	3				L			\sim	~		-	
_	4									+	REJECTER	
-	LOCATION		REMARKS							CEPTED		
(TES	TI	Chean	6 Cary	Meta/	No beterts					1	-	
REAM	2E1	()em	bray	(heta)	No.	betei	ts r					
NICK-BREAK TEST	3TZ	Clyon	Grav	Metal) No	1 del	ts			r		
2	F2	Clean	Gar	Netal	No	Det	2s					
-	SIZE AND WA	ZE AND WALL THICKNESS OF MAIN GAS PRESSURE O			RE ON MAIN PSIG	EON MAIN LOCATION OF FRACTURE				MAIN		
TEE WELD TEST		DID WELD CONTAIN:			DEPTH OF UNDERCUT LENGTHOF UND				RCUT			
TEEW	PINHO REMARKS ON		LOROLL	LINDERCUT			L					
PIPE	WELD	QUALIFIED		ELE	ACETRIC ARC	ľ	TEE WELD	OUALIFIE NOT QUA	D LI EL	ACETYLENE	-	