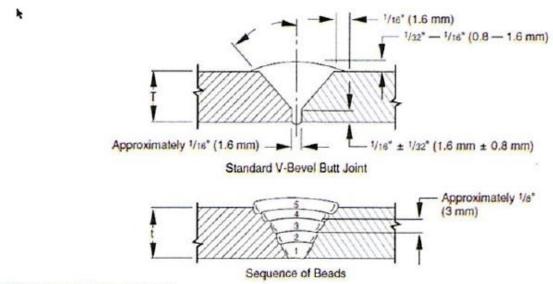
CONSTRUCTION: JOINING OF PIPES BY WELDING

15	sued: <u>3-03-2008</u> Revised: Number: <u>/C</u> Page:
СТЛ	NDARD WELDING PROCEDURE SPECIFICATION #: 7C
31 A	NUMERO WEEDING PROCEDURE SPECIFICATION #
Α.	Process: Manual Electric Arc
В.	Material: API-5L Grade A thru X42
С.	Diameter and Wall Thickness: 2 3/8 thru 6 5/8 and less than 0.188 WT thru 0.500 WT
D.	Joint Design: Standard Vee Groove 30 degrees
E.	Filler Metal and Number of Beads: Electrode Classification Electrode E6010 AWS Class
	A5.1 Minimum of 3 Passes
F.	Electrical or Flame Characteristics: D.C. Reverse Polarity, Electrode Positive
G.	Position: Inclined 45 degrees
Н.	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 N/A
Ο.	*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
Р.	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 8mph.
*	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
1	1/8	95-110	22-26	E6010 5P+	
2	1/8	105-115	24-40	E6010 5P+	
3	1/8	105-120	25-50	E6010 5P+	
4	1/8	105-135	25-35	E6010 5P+	
5					

Bead													
No.							Notes						
	Elect	rodes n	nay be	substitu	ıted	within	rod grou	ıp 1&2	AWS A	5.1-A5.	5		
											F		

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WE	LD TEST RE	PORT	(USE SEPARATE FORM FOR EACH WELDING PROCEDURE)											
DATE WELD			WELDER'S NAM	WELDER'S NAME					SOCIAL SECURITY NUMBER					
3-4-08 Dercel				cell	ell Lousford			XXX XX 2519						
LOCATION NAME OF CONTRACTOR OR C					MPANY RIGHT HANDED D			REQUALIFYING TEST				TEOT 13		
POSITION ELECTRIC ARC 12 NOC				TE TUDOODS	2-50 B						TEST O			
INCLI		FIXED (2			☐ TNDOORS ☐ WEATHE			TEMPERATURE TIME OF DAY			WIND BREAK U			
PIPE	SPECIFICATION	WHIRE	PIPE MANUFAC	TURER		WALL THICK	117.52	DIAMETER			WEIGHT P	IT PER FOOT		
SE	T 56 6	P X42	Reli			12	6	9/8		18.5	77			
MAKE OF WELDING MACHINE			SIZE	MAKE OF OX-A APPARATUS	CETYLENE	WELDING NO	COCALIFYING TEST				FO	R		
_	ID OF ELECTROD	ve .	300	ACETYLENE RO	NIA	NIIMPED OF	PASSES - OX-ACE	NA						
	al.		DIOIND OF OX	N/s	D AND GLE	1	/	7-C					al.	
	<i>AV</i> -	FLECTRODE 1	TYPE AND SIZE	NA	MACHINE	SETTINGS AMPER		oeno luoi		TAGE RG			14/1	
		CECOTHODE	TI E AND OLL		COARSE	FINE	Allircrox	SE NO.	VOL	IAGE NO	\vdash			
q	-	4			COARGE	- FINE					\dashv			
IPE WELD	STRINGER &	58	<i>+</i>		120790	40 95-110 22-30			_					
븚	HOT PASS	5 P	+		120490	50	105-	115	.24	-40				
	FILLER (S)	6 5P	+		40-190	55	105-	105-120						
	CAP PASS 5	12 SF) <u> </u>			60	105-6		-90 -35					
_	JA 1100 -2	COUPON	/	CROSS SEC.	120-190		COMPUTED	35				T.,	T	
	LOCATION LENGTH		WIDTH	AREA SQ. IN.	LOAD	% ELONG.	TENSIL PSI		REA	MARKS		AC- CEPTED	RE- JECTED	
90	1 7/	e"	,"	,280	18,200	2%	64285	1/1	No detec		+	1		
TEST	281	e.	, "	,280	18.450	2%	65.714	11/2	1	L	+	12		
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	4													
_	LOCATION		TYPE OF BEND		REMARKS							AÇ- CEPTEO	RE- JECTED	
	1 +2	FAC	~		No defeat							1	1	
STS	2 +3	Post	4		No defect							V	<u></u>	
END TESTS	3 BZ	FACE			No	dofe	c +					1	1	
#		0.1			1	1/						1	T	
_	4 /3 3 COUPON	Kooc			No					AC.	RE-			
	LOCATION									CEPTED	JECTED			
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REAK TESTS	2 34		"	16	//							~	L	
NICK-3F	3													
_	4													
EST	SIZE AND WALL THICKNESS OF MAIN GAS PI				RE ON MAIN PSIG		LOCATION OF FRACTURE - WELD O NIPPLE O					 I		
TEE WELD TEST	DID WELD CONTAIN; PINHOLES COLDROLL UNI			UNDERC	117		DEPTH OF UN	DEPTH OF UNDERCUT LENGTH OF UN						
TEE	REMARKS ON T		JOEDHULL											
PIPE	WELD	QUALIFIED NOT QUALIFIE			ECTRIC ARC ACETYLENE	8	TEE WELD	QUALIFIE NOT QUA			TRIC ARC	. 0		
TEST	ED BY	SIGNATURE	nM		TITLE,	/ L	/		CELLENE					
		al Illours					Wills	4	egoe	low				