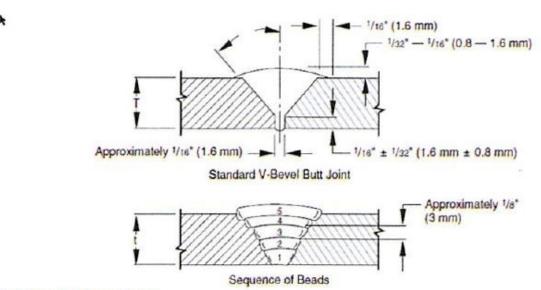
CONSTRUCTION: JOINING OF PIPES BY WELDING

	Issued: <u>8-14-2007</u> Revised: <u>Number: 6AH</u> Page:
ST	ANDARD WELDING PROCEDURE SPECIFICATION #:6AH
B. C. D. E. Ele F. G.	Process: Manual Electric Arc Material: API 5L Grade A thru X42 Diameter and Wall Thickness: Greater than 12" and .188 thru .500 wall thickness Joint Design: Standard Vee Groove, 30 Degree Bevel Filler Metal and Number of Beads: Electrode Classification: ctrode E6010, AWS Class A5.1, Minimum of 4 Passes Electrical or Flame Characteristics: Reverse Polarity, Electrode Positive Position: Fixed Horizontal
I. J.	Direction of Welding: Vertical Down Number of Welders: 1 Time Lapse Between Passes: Maximum of 5 minutes between stringer and hot pass 3 minutes maximum when temperature is below 35° F. Type of Line Lin Clamps. External
L. M.	Type of Line-Up Clamp: External Removal of Line-Up Clamp: After 50% completion of stringer bead. Cleaning: Taper grind starts and craters and flatten crown by grinding stringer bead power buff all remaining passes.
	Speed of Travel: String bead 10 to 12 inches per minute maximum. *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.
	-Rated pipe must be stress relief if the carbon content exceeds 32% or C+1/4 Mn ceeds 65%. Heating of X-Rated pipe is limited to 600°F.
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Note: Dimensions are for example only.

Bead No.	Electrode Diameter	Amperage Range	Voltage Range	Type Rod	Notes
1	5/32	110-130	22-30	E6010 5P+	
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+	
5					

Bead No.	Notes
	If necessary, more passes may be made at bead #4 amperage and
	Voltage settings.

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WE	LD TEST R	EPORT		JUSE SEPAI	RATE FORM FOR	EACH WELDING	PROCEDURE)					
DATE WELDER'S NAME 1-16-08 Timen's					Moore			SOCIAL SECURITY NUMBER				
LOCATION NAME OF CONTRACTOR OR C				OMPANY RIGHT HANDED OF			REQUALIFYING TEST			TEST O	6	
POSITION ELECTION FIXED BY OX.A			ELECTRIC ARC	ELECTRIC ARC DINDOORS DOXACETYLENE DIOUTDOORS			TEMPERATURE					
PIPE	SPECIFICATION		PIPE MANUFA	-	200 20	WALL THICK	NESS DIAMETER (OD)		_	WEIGHT PER FOOT		
API 52-BR 142			A. C.		2-120-01-01	-281		The state of the s			18	
	E OF WELDING N	MACHINE	SIZE	MAKE OF OX-	ACETYLENE	WELDING NO		OX-ACETYLENE F	PRESSUR	E FLOWING		
	ID OF ELECTRO	DE	BRAND OF OX	-ACETYLENE RO	O AND SIZE	NUMBER OF	PASSES - OX-ACE	TYLENE WELD	WELDIN	G PROCED	LIRE NO.	
	Lint.		222.20	_					25000000	6-A		
_	ELECTRODE TYPE AND SIZE			MACHINE	MACHINE SETTINGS AMPERAG							
	The Party of the			COARSE FINE								
PIPE WELD	STRINGER LIN 3/32 5P+			20-190	55	110-1	30 22-30					
H	HOT PASS	in 5/9	2 5	Pt	160240	65	65 115-155 22-35		5			
	FILLER (S)	in 3/3	2 5	Pt	160-240	65	115-1-	55	24-3	2		
	CAP PASS	Car 3/1	5	Pt	160-240	70.50	132-12	20 2	7-3	6		
	LOCATION	COUPON	WOTH	CROSS SEC. AREA SQ. IN.	LOAD	% ELONG.	COMPUTED TENSIL PSI	10	MARKS		AC- CEPTED	RE- JECTED
22	171	8"	1 "	,290	20,000	2090	68865	1100 16	det	ret	-	
TES	2/2	0-	1"	1290	This see	n accords	10				~	
ENSILE TESTS	8 8 <u>9</u> 29755	8.		Common Common	1	1	The same				V	
TE	182	0-	1 4	,290	1	V	6					
	COUPON	TYPE OF BEND			REMARKS						AG CEPTED	RE- JECTED
	182	Root			No defect					1		
99	2 £4	Root			No defect					2		
BEND TESTS	FI	FACE	FACE			No defect					10	
BEN	3 F2 F3	FACE			Opening an edge but No detect - Cless				- Clean	10		
	4 54	""			No a	detect				4		
NICK-BREAK TESTS	LOCATION								AC- CEPTED	HE- JECTES		
	111	Clean Gray Mebal								V		
	2 N2										4	
	3 N3	Small Gos metet 1/4							V			
	· NY Small Gas meket								~	-		
TEE WELD TEST	SIZE AND WALL THICKNESS OF MAIN GAS PRESSUR					FRACTURE			MAIN 🗆			
	DID WELD CONTAIN: PINHOLES COLDROLL UNDERCO				DEPTH OF UN		NDERCUT LENGTH OF U			DERCUT		
	REMARKS ON TEE WELD											
			ECTRIC ARC ACETYLENE	0	TEE WELD	QUALIFIED NOT QUALIFIED		CTRIC ARC	0			
TESTED BY SIGNATURE		Marie	05	TITLE	The The							