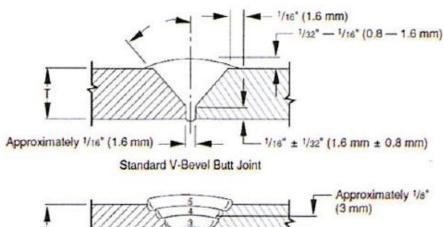
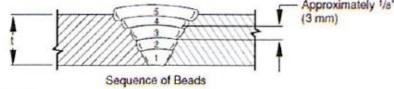
CONSTRUCTION: JOINING OF PIPES BY WELDING

153	sued: <u>03/03/2008</u> Revised: <u>Number: 7CH</u> Page:
STAI	NDARD WELDING PROCEDURE SPECIFICATION #: 7CH
A.	Process: Manual Electric Arc
B.	Material: API-5L Grade A thru X42
C.	Diameter and Wall Thickness: Less than 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: Fixed Horizontal
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: 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
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 8mph. 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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Note: Dimensions are for example only.

Bead	Electrode	Amperage	Voltage	AP 4 1	
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	25-40	E6010 5P+	
4	1/8	105-135	25-35	E6010 5P+	
5					

Bead														
No.							N	otes						
	Elect	rodes m	ay be	substi	uted	withir	Rod gro	up 1&2	of AW	/S A5.1 -	A5.	5		

CONSTRUCTION: JOINING OF PIPES BY WELDING

WE	LD TEST RE	PORT		(USE SEPAR	RATE FORM FOR I	EACH WELDING F	PROCEDURE)							
DATE WELDER'S NAME										SOCIAL SECURITY NUMBER				
1-28-08 Jimmie					Moore			1536						
Texporas West To					TACTOR OR COMPANY RIGHT HANDED			REQUALIFYING TEST QUALIFYING TEST			LINE TEST 🗆			
POSITION ELECTRIC ARC OX-ACETYLENE						WEATHER	TEMPERATURE	MPERATURE TIME OF DAY			WIND BREAK USED			
	SPECIFICATION		PIPE MANUFA	CTURER 6/10	1.5	ESS	PER FOOT							
MAK	E OF WELDING M	ACHINE	SIZE	MAKE OF OX-A	ACETYLENE WELDING NOZZLE SIZE			OX-ACETYLENE PRESSURE FLOWING						
	hid.		300	APPARATUS		WELDING NOZ	TLE OKE							
	O OF ELECTRO	DE		-ACETYLENE RO	D AND SIZE	NUMBER OF P	ASSES - OX-ACE	TYLENE WELD	LIF.	VING TE	DURE NO	OR		
	LiN.					_	and water			7-CA	/			
		ELECTRODE 1	TYPE AND SIZE		MACHINE	SETTINGS (SETTINGS AMPERAGE			GE RG.				
					COARSE	FINE THE	(·							
PIPE WELD	STRINGER	18 50	· +	blew ald	120-190 40		95-1	76	22-30					
3dld	HOT PASS	Y8 5P	·+	This in	120-190	56	105-1	115	29	-40				
	FILLER (S)	Y8 5P	'+		120-190	55	105-	120	25	-40				
	CAP PASS	5/32 SF	1		120-190	60	105-1	135	25	-35				
	LOCATION	COUPON	WIDTH	CROSS SEC. AREA SQ. IN.	LOAD	% ELONG.	COMPUTED TENSIL PSI	REMAR			AC- CEPTED	RE- JECTED		
	17/	P"	1"	,280	18,000	15%	64.285	-/	7	lofeet	-			
TESTS	23/	0"	,"		1	15%		1		1/.1	-			
ENSILE TESTS		- 8		1280	18,500	13 70	66, 071	No	de	ofee Z	-			
2	3			-							+	-		
	COUPON		TYPE OF BEND		REMARKS						AC-	RE-		
_	1 P	Poo			Bus // Crock as Side						CEPTED	JECTED		
2	2 02	2			21112	1.1.	L SI	U 200	10		1			
SEND TESTS	R.Z.	7001			- 140	11	1	1.						
BEN	3 E1	FAC			Sus	-/ CAR	dercor				1			
_	4 F-2 COUPON	FAC	<u> </u>	CJETCA REMARKS	£				AC.	RE-				
w	LOCATION			1				,			CEPTED	JECTED		
AK TESTS	11/		legal	- Velu	et 1	ture				-				
	21/2		" (-		-	-		
NICK-BRE	3													
	4													
TEST	SIZE AND WALL THICKNESS OF MAIN GAS PRESSUR							FRACTURE LD O NIPPLE O MA				3		
TEE WELD TEST	DID WELD CONTAIN: PINHOLES COLDROLL UNDERC				UT	DEPTH OF UNDERCUT LENGTH OF				LENGTH OF U	NDERCUT			
TEE	REMARKS ON TEE WELD													
				ECTRIC ARC ACETYLENE	0,	TEE WELD,	QUALIFIED NOT QUALIF		ELECTRIC AR					
TESTED BY SIGNATURE			- OA	A./	7	TITLE	#OT QUALIFI	200	OA-MUETTLE!					
100			erelle	- Nere	was ong.									