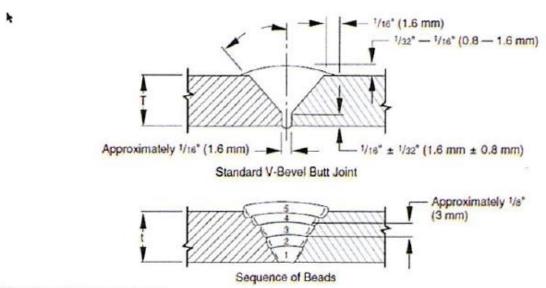
CONSTRUCTION: JOINING OF PIPES BY WELDING

SIA	NDARD WELDING PROCEDURE SPECIFICATION #: 7AH
Α.	Process: Manual Electric Arc
В.	Material: API-5L Grade A thru X42
C.	Diameter and Wall Thickness: 2 3/8 thru 6 5/8 and less than 0.188 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: 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.
	Number: 7AH Page:

CONSTRUCTION: JOINING OF PIPES BY WELDING



Note: Dimensions are for example only.

Bead	Electrode	Amperage	Voltage		
No.	Diameter	Range	Range	Type Rod	Notes
1	3/32	65-80	20-25	E6010 5P+	
2	1/8**	80-100	25-35	E6010 5P+	
3	1/8	80-100	25-35	E6010 5P+	
4	1/8	80-105	27-37	E6010 5P+	
5					

Bead													
No.							N	otes					
2	Can	be ran v	vith 3	/32 rod i	n the	same	class rai	nge at 7	5-85 aı	mps and	22-27	volts	

CONSTRUCTION: JOINING OF PIPES BY WELDING

WE	LD TEST RE	PORT		(USE SEPA	RATE FORM FOR	EACH WELDING	PROCEDURE)						
DATE WELDER'S NAME 1-16-08 Timmis					More				SOCIAL SECURITY NUMBER				
LOCATION NAME OF COM				TELES	OMPANY	RIGHT HANDE		REQUALIFYING TEST D LINE TE				est a	
				E DOUTDOO	S (2)-	WEATHER	TEMPERATURE	TIME OF D	WIND	WIND BREAK USED			
	SPECIFICATION		PIPE MANUFA	cturer		WALL THICKNESS		DIAMETER (OD) WEIGHT PE			HT PER F	0.00	
MAK	E OF WELDING N	ACHINE	SIZE	MAKE OF OX-	ACETYLENE	WELDING NO	***************************************	OCACETY LENE PRESSURE FLOWING					Ŕ
BRA	ND OF ELECTRO	DE	BRAND OF 03	-ACETYLENE RO	D AND SIZE	NUMBER OF PASSES - OX-ACE		ETYLENE WELD WELDING PROCES				E NO.	
		ELECTRODE	TYPE AND SIZE		MACHINE	SETTINGS	AMPERAGE RG. VOLTAGE RG.						
					COARSE	FINE							
WE WELD	STRINGER	STRINGER LIN 7/32 5			P+ 120-190		30 65-8		80 20-2				
È	HOT PASS	Lin ,	1/8 5	PH	120-180	40	807	00	25	-35			
	FILLER (S)	Line 1	18 1	SPF	120-190	40	80-1	100 25-		-35			
_	CAP PASS	Line	10	EP+	120-190	40	8070	25	22	-37			
	LOCATION	COUPON N LENGTH WIDTH		CROSS SEC. AREA SQ. IN.	LOAD	% ELONG.	COMPUTED TENSIL PSI		REMA	MARKS		AC- EPTED	AE- JECTED
Į.o.	171	8"	, "	.160	19,000	20%	62,500	1	6	defer	1	/	
ENSILE TESTS	272	8"	111	,160	10,000	1590	62,500	1	10	de lec	1	_	
TEN	3		-	-	-		-			-	-	-	
	COUPON LOCATION		TYPE OF BEND)	REMARKS							AC- EPTED	RE- JECTED
	1 R1	Ron	4		No	No defect						1	
STS	2 82	Loo	t		11						V		
BEND TESTS	3 F/	FAC	e		26 28							v	
_	1/2	FACE	_		DOEN	DENING ON Side- Class						~	
	LOCATION	UPON REMARKS SENTENCE OF THE S									Auge	AC. EPTED	JECTEO
AK TESTS	1 11	Clearl Gray Metal her been visually API-1108										V	
	2 NZ	C	Clasal Gray Wels This weld has been visually and destructively Clasal Gray Wels This weld has been visually and destructively Clasal Gray Wels This weld has been visually and destructively to be the secondaries with Api-1108									~	-
NICK-BR	3												
	4												
TEE WELD TEST	SIZE AND WAL	L THICKNESS O	FMAIN	GAS PRESSUE	RE ON MAIN PSIG		FRACTURE				UN 🗅		
	DID WELD CON	ITAIN: HOLES	COLDROLL	UNDERC	TUT		DEPTH OF UNDERCUT LENGTH OF UN					CUT	
E	REMARKS ON TEE WELD												
PIPE	WELD	QUALIFIED NOT QUALIFIE	0 8		ECTRIC ARC -ACETYLENE	0	TEE WELD	QUALIFIE NOT QUA		ELECTRIC OX-ACETY		00	
TEST	TED BY	SIGNATURE	Loners	No.	afel)	/	TITLE	1	16	7.			