

WELDING PROCEDURE SPECIFICATION(WPS) QW-200.1, SECTION IX, ASME B-31.3 ED 2008

WPS No.
AAIS-WPS-PP-3

CONTRACT No. Page.1 **Company Name:** QP-STD-R-002 REV.1 Supporting PQR: PQR-HOSC-03 Rev 1 Welding Process (es): GTAW + SMAW Type(s) : Manual BASE METALS (QW-403) Group No.:1 P.No. :1 P.No.: 1 Group No.:1 C_{EV}=0.31 Specification Type & Grade: ASTM A106 Gr.B TO ASTM A106 Gr.B Fillet: N/A Groove: 1.5 mm to 11.1 mm Thickness Diameter ; NPS 1" to 2" JOINTS (QW-402) Backing GTAW : None Backing SMAW: Weld Metal 6:08mm Type of Tack: Bridge cleat 3nos@120° PQR Test Specimen Size : Ø 2" x Sch80 FILLER METALS (QW 404) SMAW **GTAW** Process(es) 5.18 Spec.No.(SFA): E7018 ER 70S-2 AWS No.(Class) 4 6 F.No. 1 2.5/3.2 mm 2.4 mm Size of Filler Metal 5.1 mm max 6 mm max Weld Metal Thickness (Groove) All Weld Metal Thickness (Fillet) N/A N/A Electrode-Flux Class N/A N/A Supplemental Filler Metal D&H Bohler Manfacturer Name N/A N/A Flux Type Covered Electrode SOLID Filler Metal product form N/A NONE Consumable Insert Reviewed /Witnessed By. Approved By. Prepared By. **AAIS VELOSI AAIS** Date.



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	ny mame.	DATE: US	04 200	S REV	CONTRA	CI NO.			P	
PS-HOSC-03		DATE: US	U-1.202	3 1020	POSTWELD	HEATTRE	ATME	NT (QW-40	7)	
POSITIONS (QW-405)					POSTWELD HEATTREATMENT (QW-407) Temperature range: N/A					
Position (s) of Groove: All					Time Range: N/A					
Welding Progression: Uphill					Heating Rate/Hr : N/A Cooling Rate/Hr : N/A					
Position (s) of Fillet : All					neading nace) in the					
REHEAT (QW	/-406)				Gas(QW-40			Mixture	Flow Rate	
Preheat Temp. (Min): 15° C.						Gas(es		99,99%	10-20 LPM	
Inter Pass temp(Max): 150 °C					Shielding	ARGON	-		NONE	
Preheat maintenance : N/A					Trailing	NONE	_	NONE	NONE	
Other: N/A					Purging	NONE		NONE	NONE	
ECHNIQUE(QW-410)									
String or weave bead: String and/or weave					Oscillation: N/A					
Max. weave width: 3 x dia of electrode					Contact tube to work distance: N/A					
Orifice/Gas Cup Size: 12 mm					Multiple/Single pass (per Side): Multiple					
Initial Cleaning: Brushing/Grinding					Multiple/Single Electrode: Single					
Inter pass Cleaning: Brushing/Grinding.					Travel Speed (Range): As per Table below					
Method of Back gouging: N/A					Close to out Chamber: N/A					
	CHARACTER		409)							
				Polarity:	As per table	below				
Current (AC/DC): DC Amps (Range) : As per Table below				Volts(Range): As per table below						
Amps (Range	e): As per is	Tune: 2.4	mm	-				CAMO - M/A		
Tungsten Ek	ectrode Size 8 ited (EWTh-2)	type; 2.4		Mode Of	Metal Trans	ter for Giv	WAAAL	CAVA). NO		
Weld	Process	Filler M	etal	Current			*Volts -	Travel	Heat Input Max (KJ/mm)	
Passes	Piocess	Class	Dia. mm	Type/ Polarity	*Amp. rai	nge Ra	Range	(Range) mm/min	(KJ/min)	
Root	GTAW	ER705-2	2.4	DCEN	70-80	1	0-11	30	1.57	
Hot	GTAW	ER705-2	2.4	DCEN	80-90	1	10-11	54.28	0.99	
FILL 1-N	SMAW	E7018	2.5/	DCEP	60-70		20-25	42.22	2.08	
CAP 1-N	SMAW	E7018	2.5/	DCEP	60-70	1	20-25	58.46	1.62	

Notes:

- For GTAW welding, high frequency start up unit to be used.
 Bridge Piece material shall be same as parent material

Prepared By.	Reviewed /Witnessed By.	Approved By.
AAIS	VELOSI	AAIS
Date.		