Annex D (Informative) Welding Procedure Specification (WPS) Form

This annex is not part of this standard but is included for informational purposes only.

WPS Number Supported by PQR No.(s)					
WPS Rev. No.	WPS Re	v. Date			
		VAR	ABLES		
Welding Process	SMAW	GTAW	GMAW	FCAW O	ther
Method Application	Manual	Semi-auto	Auto	Mechanized	
Welding Current	AC	ACHF	DCEP	DCEN	
Mode of Transfer (GI	MAW)				
Metal thickness rang	je (Grooves)		(Fillets)		
Coating Type					
Joint Types	□ Groove	□ Fillet			
Joint preparation					
Backing material					
Welding Positions	□ Flat	Horizontal	Vertical Uphill	Vertical Downhill	Overhead
Filler metal specifica	tion				
Filler metal classifica	ation/weld metal grac	le			
Filler metal F number	er				
Shielding gas/combi	nation				
Gas flow L/min [CFH	4]		Backing gas	□ Yes □	No
Pass No.	Filler Metal Dia.	Current Range	ng Power Voltage Range	Speed of Travel	Joint Details
Pass No.	Filler Metal Dia.	Current Range	vollage Range		Joint Details

We, the undersigned, certify that this document was prepared in accordance with the requirements of AWS D9.1/D9.1M, _____ (year) *Sheet Metal Welding Code.*

Authorized E	Зу:
Signature: _	

Manufacturer or Contractor: ______
Date: _____

Annex E (Informative) Procedure Qualification Record (PQR) Form

This annex is not part of this standard but is included for informational purposes only.

PQR Number		WPS Number Test Date:					
	v	ARIABLES USED	FOR QUALIFIC	ATION TEST			
3	\Box AC	al		 FCAW Mechanized DCEN 	□ Other _		
Base metal(s)			to				
Coating type							
Joint preparation Backing material							
Filler metal specific	ation					□ Ove	
Filler metal F numb	er	al grade					
					ing gas	□ Yes	□ No

		Welding Power				
Pass No.	Filler Metal Dia.	Current	Voltage	Speed of Travel in/min	Joint Detail	

VISUAL INSPECTION RESULTS

Croove Wold	Acceptance Criteria					
Groove Weld (see 5.4.1 or 10.4.1)	Weld		Braze Weld			
(See 5.4.1 of 10.4.1)	Pass	Fail	Pass	Fail		
Joint Fusion/Metallic Bond						
Required joint Penetration			N/A	N/A		
Face/Root reinforcement						
Pore or Inclusion size/quantity						
Undercut			N/A	N/A		
Cracks						

Fillet Weld		Acceptance Criteria				
	Weld		Braze Weld			
(see 5.4. <u>2</u> or 10.4. <u>2</u>)		Fail	Pass	Fail		
Joint Fusion/Metallic Bond						
Required minimum Effective throat						
Required maximum Convexity						
Pore or Inclusion size/quantity						
Undercut			N/A	N/A		
Cracks						

Welder/Welding operator's name	Welder/Welding operator's ID No.:
Inspection performed by	_Signature
	nis record are correct and that the test specimens were prepared, nents of AWS D9.1/D9.1M, (year) Sheet Metal Welding Code.
Authorized By:	_ Manufacturer or Contractor:

Signature: ___

Annex F (Informative) Welder and Welding Operator Qualification **Test Record Form**

This annex is not part of this standard but is included for informational purposes only.

QUALIFICATION TEST PERFORMED

Welder/Welding operator's name		VPS Num	ber	
Welder/Welding operator's	I.D. number Te	Test Type: □ Weld □ Braze weld		
Test date				
	VARIABLES USED IN QUALIFICATIO	ON	ACTUAL VARIABLE RANGE	
Welding process	□ SMAW □ GTAW □ GMAW □ FCAV □ Other		□ SMAW □ GTAW □ GMAW □ FCAW □ Other	
Welding current Method of application Mode of transfer (GMAW) Joint type		anized	□ AC □ ACHF □ DCEP □ DCEN □ Manual □ Semi-auto □ Auto □ <u>Mechanized</u>	
Base metal Base metal thickness Backing material Coating type Filler metal specification	to		to	

_____ Filler Metal Classification Filler metal F number _____ _____ Position(s) welded
Flat Horiz Vert-up Vert-up Vert-dn Overhead Flat Horiz Vert-up Vert-dn Overhead

VISUAL INSPECTION RESULTS Г

Groove Weld	Acceptance Criteria					
	We	ld	Braze Weld			
	Pass	Fail	Pass	Fail		
Joint Fusion/Metallic Bond						
Required joint Penetration			N/A	N/A		
Face/Root Reinforcement						
Pore or inclusion size/quantity						
Undercut			N/A	N/A		
Cracks						

Fillet Weld		Acceptance Criteria					
		Weld		Weld			
	Pass	Fail	Pass	Fail			
Joint Fusion/Metallic Bond							
Required minimum Effective throat							
Required maximum Convexity							
Pore or inclusion size/quantity							
Undercut			N/A	N/A			
Cracks							

Inspection performed by ______ Signature _____

We, the undersigned, certify that the statements in this record are correct and that the test specimens were prepared, joined, and examined in accordance with the requirements of AWS D9.1/D9.1M, (year) Sheet Metal Welding Code.

Shielding gas Backing Gas

Authorized By: _____ Manufacturer or Contractor: _____

Signature: _____ Date: _____

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