## SAMPLE PROCEDURE QUALIFICATION RECORD (PQR)

for SAW, SMAW, GMAW, GTAW, FCAW

Company		Ap	Approved by				
- · · · · · · · · · · · · · · · · · · ·			(Signature Required)				
Welding Process(es)		Ty <sub>l</sub>	Type(s)				
			(Manual, Semiautomatic, Automatic, Robotic, Mechanized)				
		Joints (see	4.14.1)				
Joint Type			Joint Details				
Backing Material (Typ	oe)						
Groove Angle	·						
Root Opening Radius	s: U 🗌 J 🗌						
Backgouging: Yes [	No 🗌						
	l						
0 0 0							
			Sketches, production drawings, welding symbols, or written description should show the general arrangement of the parts to be welded. Where applicable, the root details of the weld groove may be specified.				
		Base Metals (s	ee 4.14.2)				
M-No.	Group No.	or	to M-No.	Group No			
			to Specification Type and Grade				
			Fillet				
Pipe Diameter Range			Fillet				
		Filler Metals (s	see 4.14.3)				
Filler Metal F-No							
			OtherAWS Specification				
	A-No		Other				
	A-110.		Electrode Flux (Class)				
	S		Flux Trade Name				
			Other				
Consumable insert _		Oi	1161				
Pos	sitions (see 4.14.4)		Pre	heat (see 4.14.5)			
	)	Dr	Preheat Temperature (Min.)				
			Temperature (Max.)				
Mold Drogression		ie	imperature (iviax.)				
weid Progression							
		PWHT (see	4.14.6)				
Temperature		Tir	me				
iomperature							
		Shielding (se	e 4.14.7)				
	Torch Shielding	Root Shielding	Trailing	Environmental Shielding			
0 ( )	Toron Sillelaing	1 toot officiality	naiing	Livioninental Sillelaing			
Gas(es)							
Composition							
Flow Bate	1						

Figure F.3—Example of a Procedure Qualification Record

Electrical Characteristics and Welding Parameters (see 4.13.8)						Other Variables (see 4.14.9)				
				Cup or No						
Current Type/PolarityPulsing: Yes No					Cup or Nozzle SizeCollet Body or Glass Lens					
						Cleaning Method				
Current (Range) Voltage (Range)				Technique: Stringer or Weave Bead						
	Wire Feed Speed (Range)									
Travel Speed (Range) Tungsten Electrode Size/Type										
					Number of Passes per Side Other					
Transfer Mode Pulsing Parameters Heat Input										
-										
				Те	st Results					
Tensile Results										
				\C 11	Resi		<u>.</u>			
Specimen No.	Width	Thickness	Area	Yield Load	Yield Strength	Tensile Load	Tensile Strength	Failure Type and Location		
INO.	VVIGITI	THICKIESS	Alea	Loau	Strength	Loau	Strength	and Location		
					1		I I			
	G	uided Bend	Tests		Qual	Qualification Results for Toughness Application				
	Тур	e and Figure	Number			Type and Figure Number				
7,7										
		Results				Results				
		Fillet Weld To	octo			Other Tests				
		e and Figure				Type and Figure Number				
	c and rigare	INGITIDO			турс	and rigate ive	imboi			
Results						Results				
and tested i and Perform	n accorda ance Qua	ance with the alification.	requirem	ents of AWS	B2.1/B2.1M,	((year)	_), Specificatior	were prepared, welded, of for Welding Procedure		
Manufacture	r or Cont	ractor								
Date			Bv							
Date ByPlease Print							Signa	ture Required		
		Pern	nission to r	enroduce grai	nted by the Ame	erican Welding	Society			

Figure F.3 (Continued)—Example of a Procedure Qualification Record