FORM Q-107 RECOMMENDED FORM FOR QUALIFYING THE VESSEL DESIGN AND THE PROCEDURE SPECIFICATION USED IN FABRICATING FILAMENT-WOUND FIBER-REINFORCED PLASTIC PRESSURE VESSELS (CLASS I) (Pavision C 2017)

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Procedure Specification No					
A change in any of the essential varia	bles denoted by a	n asterisk belo	ow requires a new Proced	ure Specification.	
*Fiber					
		(Manut	facturer and Designation)		
*Sizing or Finish					
		(Man	ufacturer and Designation)		
*Resin		(Type, M	anufacturer, and Designation)	
*Curing Agent					
		(Type, M	anufacturer, and Designation)	
Viscosity of Resin System		cP (min.) to		cP (max.) @	°F (°C)
*Manner of impregnation					
1 0			(Prepreg, Wet Wind, Postpre	eg)	
*Percent Fiber by Weight in Compos	ite				
*Variables of Winding Process					
Helix Angle			(measu	red on cylinder between axi	s and band path)
Pattern Description					
Band Density: Helical	end/in. (end/mm)		Circumferential	end/in. (end/mm)	
Bandwidth: Helical	in. (mm	ı)	Circumferential	in. (mm)	
Tension: Per Strand (End), Roving, or E	and (specify whic	h)	Ib (N) per		
Method of Control			Program		
Layer Sequence			[Note (1)]		
Ratio Hel./Circ. in Cylinder					
*Curing Schedule	°E (°C)	for	hr	min	
-			hr		
			hr		
			hr		
			hr		
Manner of Measuring Temperature:	Oven Air		Winding Surface .		
Mandrel			0		
(Describe)					
*Liner		(Thickness)			
(Manufacturer and Designation) (Th					
		(Method of Ins	talling Liner)		
NOTE:					

(1) Use X to indicate layer of helical winding

(a) "O" to indicate full layer of circumferential windings (down and back)

(b) "o" to indicate half-layer of circumferential windings (one pass)

Where a range of values or a tolerance applies, state the applicable range or tolerance.

FORM Q-107 (CONT'D) (Revision C — 2017)

Manner of Reinforcing Openings								
*Pole Pieces	(Describe)							
	(Material)							
(Method of Installing: Wound-in, Bonded, etc.)								
Head Contour	(Auxiliary Uses)							
Head Contour	(Describe)							
	(Describe)							
Type of Winding Machine	(Describe)							
*Weight of Vessel								
*Barcol Hardnesses and Location								
*Volumetric Expansion								
Qualification: Vessel(s) Serial Number(s)								
Design Report Number								
Test Report Number								
ASME Section X								
	nda (if applicable) Date	Code Case No.						
We certify that the statements made in this Specific								
Date	Signed	(Fabricator)						
	Ву							
Certification of Authorization No.	Expires							
	TION BY SHOP INSPECTOR							
	DESIGN AND FABRICATION							
Procedure Specification of at for		process of fabricating vessel(s) described in						
Des	ign Specification and							
(User)	ign Report Number	(Fabricator)						
I, the undersigned, holding a valid commission i and employed by	of he vessel(s) and the fabric these tests of the prototyp requirements of Section ssels. nor his employer makes an ator's Design Report. Fur	cation procedure have been qualified and be vessel(s) and the fabrication procedure X of the ASME BOILER AND PRESSURE y warranty, expressed or implied, concern- rthermore, neither the Inspector nor his						
Date	Commission	(National Board Authorized Inspector Number)						
(Authorized Inspector's Signature)								