FORM CPV-2 RECOMMENDED FORM FOR QUALIFYING THE LAMINATE DESIGN AND THE LAMINATE PROCEDURE SPECIFICATION USED IN THE FABRICATION OF COMPOSITE REINFORCED PRESSURE VESSELS (CLASS III) (Revision B — 2023) As required by the Provisions of the ASME Boiler and Pressure Vessel Code						
Qualification Test Report No.						
Laminate Procedure Specification Number and Revision						
A change in any of the essential variables denoted by an asterisk below requires a new Laminate Procedure Specification.						
"FIDER(Manufacturer and Designation)						
*Sizing or Finish(Manufacturer and Designation)						
*Resin						
*Curing Agent						
Curing Agent/Resin Ratio						
Viscosity of Resin System cP (min.) to cP (max.) @(Temperature)						
*Manner of Impregnation						
*Percent Fiber by Weight in Composite						
[See Note (1)] *Variables of Winding Process [See Note (2)]						
Helix Angle(Measured on Cylinder Between Axis and Band Path)						
Circumferential Band Density ends/in. (ends/mm)						
Circumferential Band Width						
(Lengtri) Tension: Per Strand (End), Roving, or Band (Specify Which) per per						
(Load)						
Layer Sequence						
[See Note (2)]						
(Type, Manufacturer, and Designation)						
Primer Application Method						
*Primer Curing Schedule for for hr min						
NOTES: (1) Where a range of values or a tolerance applies, state the applicable range or tolerance. (2) (a) Use "X" to indicate layer of helical winding.						

- (a) Use "X" to indicate layer of helical winding.(b) Use "O" to indicate full layer of circumferential windings (down and back).
- (c) Use "h" to indicate half-layer of circumferential windings (down only).

FORM CPV-2 (CONT'D) (Revision B — 2023)

Exterior Treatment (Non-Structural,	Describe)					_
Fiber Type	Fi	ber Form	Manufacture	۶r	Manufacturer No.	
Material No. 1						_
Material No. 2						_
*Inner Liner		(Material Grad	e and Thickness [see Note (1)])		_
*Liner Size and Configuration	(OD)		(Length)	((Cylindrical Spherical Other)	_
Laminate Strength	(00)	_ psi (kPa) Me	thod of Measurement	t(I	Other Than ASTM D 2290)	_
Interlaminar Shear Strength						_
Acoustic Emission Examination Rep	ort Number					_
*Laminate Curing Schedule	(Temperature)	_ for	hr	n	nin	_
	(Temperature)	for	hr	r	nin	-
	(Temperature)	_ for	hr	r	nin	-
	(Temperature)	_ for	hr	r	nin	-
	(Temperature)	_ for	hr	r	nin	-
Manner of Measuring Temperature:	Oven Air		_ Wrong Surface			_
Vessel Head	Other (Describe)					
*Barcol Hardness	(Use a separate sheet to	o record individual re	adings and their location [se	e Note (1)].)		_
Laminate Thickness	(Use a separate sheet to	o record individual re	adings and their location [se	e Note (1)].)		_
*Volumetric Expansion	(- I			()] /		_
Gel Time	min	Peak Exoth	ermic Temperature		(Temperature)	_
Minimum Temperature Cycle Test: _	(No. of Cycles)	from	(Prossure)	to	(Prossuro)	at
	(_ maximum tes	st temperature		(Fressure)	
Maximum Temperature Cycle Test:_	(No. of Cycles)	from	(Pressure)	to	(Pressure)	at
	(Temperature)	_ minimum tes	t temperature			
Burst Pressure(Press	ure)	Qualification Pressure		(Pre	ssure)	-
Mode of Failure						-

FORM CPV-2 (CONT'D) (Revision B — 2023)

ASME BOILER AND PRESSURE VESS	EL CODE, Section X	(Year)	(Case No.)					
We certify that the statements in this Spe	ecification are correct:							
Date ,	Signed	(Fabricato	pr)					
Certificate of Authorization Number		Expires						
CERTIFICATION BY SHOP INSPECTOR OF QUALIFICATION OF LAMINATE DESIGN AND LAMINATE PROCEDURE SPECIFICATION								
Laminate Procedure Specification of		at						
For		process of f	fabricating vessel(s) described in					
User's Design Specification Number and	Revision		and					
Fabricator's Design Report Number and	Revision							
I, the undersigned, holding a valid comm	ission issued by the Natio	nal Board of Boiler and Pre	ssure Vessel Inspectors					
and/or the State or Province of			and employed					
by	C	of						
have inspected the pressure vessel and	witnessed tests described	l in the Qualification Test Re	eport of the Laminate Design					
and Procedure Specification and state th	at to the best of knowledg	e and belief, the Fabricator	has constructed this part in					
accordance with the ASME BOILER AND PRESSURE VESSEL CODE, Section X, Class III and the Laminate Design and								
Procedure Specification being qualified. By signing this certificate, neither the inspector nor his employer makes any								
warranty, expressed or implied, concerning the design or procedure covered by this Qualification Test Report.								
Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property								
damage or loss of any kind arising from or connected with this inspection.								
Date Sign	ed	Commissions						
	(Authorized Inspector)	(National Board Authorized Inspector Number)					