FORM Q-106 RECOMMENDED FORM FOR QUALIFYING THE VESSEL DESIGN AND THE PROCEDURE SPECIFICATION USED IN FABRICATING BAG-MOLDED AND CENTRIFUGALLY CAST FIBER-REINFORCED PLASTIC PRESSURE VESSELS (CLASS I)

Specification No		Process		
A change in any of the essential variable	s denoted by an asteris	sk below requires a new Procedu	ire Specification.	
*Fiberglass				
		(Manufacturer and Designation)		
*Sizing	()	(anufacturer and Designation)		
	(10	and Designation/		
Form of Reinforcement				
		(Cut Strand, Mats, or Pref	orms)	
Binder for Mats and Preforms				
	(Po	lyester Emulsion, Polyester in Alcol	hol, Polyester Powder,	etc.)
Weight of Binder	(Porcont)	Solubility	(High or Low Posistor	ven to Styropa
	(reicent)		(High of Low Resistar	
Mats	(oz/s [,]	g ft; 1 ¹ / ₂ , 2, 3) (gr/m ² ; 450, 600, 900)		
Dustance		4 4 7 <u>2</u> , , , , , , , , , , , , , , , , , , ,		
Preforms		(Weight of Binder)		
*Rocin				
	(Тур	e, Manufacturer, and Designation)		
*Curing Agent				
	(Тур	e, Manufacturer, and Designation)		
Viscosity of Resin System				
*Cure				
Mandrel				
(Time)	1	(Temperature)	(Pressure)
Mold		· / _ /	<u> </u>	(2)
(Time)	(Temperature)	(Pressure)
*Post Cure				
Furnace	ime)		(Temperature))
,, ,,			(Temperature)	
*Percent Glass in Composite				
Specific Gravity of Composite (ASTN	/I D /92)			
*Initial Bag Pressure				
Bosin Injection Pressure				
*Weight of Vessel				
*Barcol Hardnesses and Location				
Temperature During Lay-up				
Pumping Procedure				
(07/17)				

FORM Q-106 (CONT'D) (Revision C — 2017)

*Volumetric Expansion		in. ³ (mm ³)
Liner		
(Material)		(Thickness)
Qualification		
Vessel(s) Serial Number(s)		
Design Report Number		
Test Report Number		
ASME Section X		
Edition and Addenda	a (if applicable) Date	Code Case No.
We certify that the statements made in this Spec	cification are correct.	
Date	Signed	
		(Fabricator)
	Ву	
Certificate of Authorization No.	Expires	
CERTIFIC	CATION BY SHOP INSPEC	TOR
OF QUALIFICATION O	F DESIGN AND FABRICAT	TION PROCEDURE
Procedure Specification of	at	
for		process of fabricating vessel(s) described in
D	Design Specification and	
(User)		(Fabricator)
[Design Report Number 🔔	
l, the undersigned, holding a valid commissic	on issued by the National	Board of Boiler and Pressure Vessel Inspectors
and employed by	of	· · · · · · · · · · · · · · · · · · ·
have witnessed the tests by which the design o	f the vessel(s) and the fa	abrication procedure have been qualified and
state that, to the best of my knowledge and beli	ef, these tests of the prot	totype vessel(s) and the fabrication procedure
employed in constructing the vessel(s) satisfy the	requirements of Section >	K of the ASME BOILER AND PRESSURE VESSEL
CODE, Fiber-Reinforced Plastic Pressure Vessels.		
By signing this certificate, neither the Insp	pector nor his employer	makes any warranty, expressed or implied,
concerning the design or procedure covered by the	ne Fabricator's Design Re	port. Furthermore, neither the Inspector nor his
employer shall be liable in any manner for any p	personal injury or prope	rty damage or loss of any kind arising from or
connected with this inspection.		
Date	Commission	
		(National Board Authorized Inspector Number)
(Authorized Inspector's Signature)		