

INSPECTION CHECKLIST FOR PRESSURE VESSELS FOR HUMAN OCCUPANCY

<u>General</u>	NC#	NB#
Name of Manufacturer? _____		
What is the MAWP of the vessel? _____		
What is the set pressure of the relief valve on the vessel? _____		
What is the date of vessel manufacture? _____		
REFERENCE	ITEM	YES NO
PVHO-1 1-1 NC Rules	Is the vessel constructed to ASME Section VIII?	
PVHO-1 1-7.9 PVHO-1 2-6.5 PVHO-1 2-9	PVHO documentation on site and complete. Forms required are: <ul style="list-style-type: none"> U1 or U2 PVHO form GR-1 - Manufacturer's Data Report PVHO forms for Acrylic Windows. VP-1, VP-2, VP-3, VP-4, and VP-5 User's Design Specification PVHO Form VP-6 - Acrylic Window Repair (if applicable) 	
NC Rules	Is the U1 or U2 form registered with the NB?	
PVHO-1 1-5	Is the GR-1 form certified by a registered PE?	
PVHO-1 2-6.1	Are the markings on the acrylic widow traceable to the VP forms?	
PVHO-1 2-2.7.7 PVHO-2 2-4.4	The acrylic cylinder has a 20 years or 20,000 cycle design life from the date of fabrication. Has it been 20 years or 20,000 cycles since the date of fabrication? If yes, see **NOTE below	
PVHO-1 1-6	Are any of the following materials used for pressure parts? SA-36, SA-283, SA-515, cast and ductile iron? (these materials are not allowed)	
PVHO-1 1-8(b) UG-135 (e)	Does the safety valve have a quick opening manual shutoff valve installed between the chamber and the pressure relief valve, with it sealed open?	
PVHO-1 1-8 (a) PVHO-1 4-4.2.7 UG-125 through 136	Is the safety valve constructed in accordance with ASME Code Section VIII?	
PVHO-1 4-9.2.5 PVHO-1 4-9.8.8 (a)	Is the exhaust from the chamber and the discharge of the relief valve piped outside the space?	
PVHO-1 4-9.4.1	Does the vessel have at least one depth gage indicating the chamber internal pressure?	
PVHO-1 4-9.4.2	Is there a means to check calibration of the depth gage? More than one system gage or a way to connect a master.	
PVHO-2 2-4.1.1(a)	Are the windows free of crazing, discoloration, cracks, chips, scratches, gouges, burns or pits?	
PVHO-1 4-9.3.1	Do lines that penetrate the pressure boundary have two shutoff valves?	
PVHO-1 5-1.5 UG-35	Does the door meet the requirements for quick actuating closures? Cannot be opened under pressure and the chamber cannot be pressurized when the door is open.	

NOTE** - Some PVHO's are constructed to Code Cases and may not have all forms listed in this SOP and checklist. Forms required by the Code Cases must be included. *NOTE**- If the cylinder has exceeded those limits, windows shall be evaluated and/or tested by the user to determine safe service life in accordance with the technical criteria and PVHO-2 guidelines.