Pressure Test Record

(for implodable items to be carried aboard Alvin)

Certification of implodable volumes to be installed on, or manipulated by, DSV *Alvin* requires a submergence pressure test to **10,037 psi** (1.5 x 4,500m x 1.487 psi) +50/-0 psi for 10 cycles. The first 9 cycles will consist of a hold at pressure for 10 minutes. The 10th cycle will be held for 1 hour. The test shall be conducted in 35°F seawater, if practical. This includes any and all equipment to be installed on the submersible, an elevator to be moved by the submersible, or a free vehicle or instrument that will be manipulated by the submersible. For volumes which are intended for use at depths shallower than 4,500m, an acceptable alternative procedure involves substituting a different maximum test pressure in the same cycling sequence according to the following equation:

Test pressure (psi) = 1.5 x (maximum pressure (psi) expected during applicable dives), where maximum pressure = maximum water depth (meters) x 1.487 (psi/meter)

Any volume tested to a depth other than 4,500m must have the maximum allowable depth clearly indicated on the exterior of the pressure vessel.

the exterior of	the pressure ves	5501.			
Damage shall b	e cause for test fa	ailure. The following data	shall be recorded, with	a separate record for e	each item teste
Гest Equipment		Gauge 1	Gauge	2 (if installed)	
Gauge Make: Gauge Model: Serial Number: Calibration Date: Next Cal Due Date: Gauge Pressure Range:					
calibrated to NI	ST standards with	in middle two-thirds of gai hin 12 months of the test.	ige pressure range. Te	st facility gauges must I	nave been
Test Medium	Temperature:				
Test Data Cycle No.	Pressure	Start Time (Full Pressure)	Stop Time (Full Pressure)	Hold Time	
1 2 3 4 5 6 7 8 9					
Results and Re	emarks:				
Test Operator	r				
Signat Date:					