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 **14,600 psi** (1.5 x 6,500m) for 10 cycles; held 10 minutes at greatest pressure for cycles 1 through 9, held 1 hour at greatest pressure for cycle 10. 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 6,500m, 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 6,500m must have the maximum allowable depth clearly indicated on the exterior of the pressure vessel.

Damage shall be cause for test failure. The following data shall be recorded, with a separate record for each item tested.

2-MAY-2016 Test Date: PPS CONTROLLER AND UTS-LY PUMP HOUSINGS Description of Item Tested (Make/Model): Serial Number (or other unique ID): SUSAN LANG U. SOUTH Tested For/Item Owned By: 8200 PS1 Test Pressure (PSI): **Test Equipment** Gauge 1 Gauge 2 (if installed) OMEGA Gauge Make: PX0151 - 20KGV Gauge Model: 331650 Serial Number: 1-29 - 2016 Calibration Date: 1-29- 2017 Next Cal Due Date:

Note: Test pressure shall be within middle two-thirds of gauge pressure range. Test facility gauges must have been calibrated to NIST standards within 12 months of the test.

20,000 PE

Test Medium Temperature:

Gauge Pressure Range:

Test Data	P51	Start Time	Stop Time	
Cycle No.	Pressure	(Full Pressure)	(Full Pressure)	
1	8214	10:27	10:38	
2	8220	10:50	11:00	
3	8210	11:11	11:21	
4	8215	11:33	10:43	
5	8220	11:53	12:03	
6	8220	12:14	12:24	
7	8210	12:34	12:44	
8	8213	12:54	13:04	
9	8226	13:14	13:24	
10	8200	13:34	14:35	

10	8200	13:84	14:35	
Results and Re	emarks:			
Test Operator	r			
•	(print):	IMOTHY S	HANAHAN	

Signature:

Date:

Pacility Used:

McLane Research Pressure Chamber

