Company Name:	Company Number:	
	spire Solutions Because Together Opportunity Runs Deep SS SAFETY INSPECTION CHECKLIST	
	s, and any other item used in the deployment and operation of the ROV; they	
will all be inspected as part of the safety check. In addition, the SID, o		
documentation needed to verify compliance must be made available 1.0 Initial Safety Inspection	4.0. Pneumatic / Hydraulic (if applicable)	
Fluid power approved? Fluid power used?	Passed fluid power quiz.	
If yes to both, see Section 4.0 Pneumatics / Hydraulics	Pneumatic or hydraulic diagram (SID) present?	
Laser approved? Laser used?	Hydraulic fluid MSDS provided (if water is not used).	
If yes to both, see attached laser safety inspection sheet.	Hydraulic fluid (other than water) has been	
2.0 ROV Physical	approved by MATE ROV Competition Technical	
All items attached to ROV are secure.	Manager.	
Hazardous items are identified and protection provided.	All pressure lines have a minimum pressure rating of	
ALL propellers are completely shrouded to IP-20 standards. Mes		
size is less than 12.5 mm.	300 PSI (hydraulic)	
No sharp edges or elements of the ROV design that could cause i		
to personnel or damage the pool surface.	Valves meet the minimum pressure rating of	
3.0 ROV Electrical	100 PSI (pneumatic) or	
Tether has proper strain relief at the ROV.	300 PSI (hydraulic)	
No exposed motors.	Attachment to the pressure source is secure.	
Brushless motors are considered exposed unless electrically seale		
after purchase. Companies should provide proof of sealing	40 PSI max for pneumatics	
procedure.	150 PSI max for hydraulics	
No exposed copper or bare wire.	Pressure vessels have a stamped pressure rating or verification by	
All wiring securely fastened and properly sealed.*	inspection.	
Any splices in tether are properly sealed.*	Pressure vessels have a a current inspection sticker.	
3.1 Surface Controls Electrical & Physical	Pressure vessels have a a current inspection sticker. Pressure vessels can be secured on the pool deck.	
Single attachment point to the power source.	Company fabricated pressure accumulator test results are provided	
Anderson powerpole attachment to power source.	(if used).	
Properly sized inline fuse within 30 cm of power supply attachme		
point.	Pneumatics utilize compressed air or inert gas.	
point.	rifeumatics utilize compressed all of mert gas.	
The surface control station is built in a neat and workmanship like	e	
manner. No loose components or unsecured wires. All electrical	SAFETY INSPECTION #1	
components are covered inside an enclosure.	PASSED: 30 POINTS	
No exposed copper or bare wire.		
120VAC wiring is separated from the DC wiring.	Failed: Items to correct noted on rear of this sheet.	
1207/16 Willing is separated from the De Willing.		
120VAC wiring must be clearly identified from the DC and contro		
voltages with signage and/or wire color schemes. If the color sch	PASSED: 20 POINTS	
is used, a key must be provided for identification.		
All wires entering and leaving the surface control station must ha	Failed: Items to correct noted on rear of this sheet.	
adequate strain relief and wire abrasion protection as the wires		
through the enclosure.	SAFETY INSPECTION #3	
	PASSED: 10 POINTS	
All connectors utilized are properly rated for their application. A	С	
only rated connectors cannot be used for DC.	Failed: Reason / details are noted on rear of this sheet.	
* Properly sealed means that the wires cannot be exposed to water. Ta	Total Safety Points:	
only sealing will allow the conduction of electricity through water.		
At minimum, joints must be soldered, sealed with a proper waterproof		
sealant, and covered in tape or shrink wrap. For in water taping, silicor	ne O to 20 points	

self-vulcanizing tape is preferred over thermoplastic tape. Cables with

exposed male connections on both ends are not allowed.

0 to 30 points

Inspection #1: Items to address	Judge:	
Inspection #2: Items to address	Judge:	
Inspection #3: Reason	Judge:	