Company Name:		
2021 MATE ROV COMPETITION. Excite, Educate, Empor		
Companies must bring this check list, the ROV, tether, surface controls, and all be inspected as part of the safety check. In addition, the SID, must be ma		
1.0 Initial Safety Inspection	4.0. Pneumatic / Hydraulic (if applicable)	
Fluid power approved? Fluid power used?	Pneumatic or hydraulic diagram (SID) present.	
If yes to both, see Section 4.0 Pneumatics / Hydraulics	Uses air for pneumtics or water for hydraulics.	
2.0 ROV Physical	No electrical numbs allowed. Manual (and or foot numbs only)	
All items attached to ROV are secure.	No electrical pumps allowed. Manual (and or foot pumps only!)	
Hazardous items are identified and protection provided.	No pressure accumulators (pressure inside a containter should never	
ALL propellers are completely shrouded or are enclosed inside the	be higher than ambient pressure).	
frame of the ROV.	Any container that air is being pumped into is vented to the pool	
No sharp edges or elements of the ROV design that could cause injury	with vent holes at least 1/4-inch (6.35 mm) diameter.	
to personnel or damage the pool surface.	With Vent holes at least 1/1 mon (0.55 mm) diameter.	
3.0 ROV Electrical		
Tether is properly secured at the ROV.	5.0 Lasers	
No exposed motors.	No lasers present (lasers are not allowed in the NAVIGATOR class).	
Brushless motors are considered exposed unless electrically sealed		
after purchase. Companies should provide proof of sealing	CAFETY INCRECTION #4	
procedure.	SAFETY INSPECTION #1 PASSED: 10 POINT	
No exposed copper or bare wire. All wiring securely fastened and properly sealed.*	PASSED. 10 POINT	
Any splices in tether are properly sealed.*	Failed: Items to correct noted on rear of this sheet.	
3.1 Surface Controls Electrical & Physical		
Single attachment point to the power source.	SAFETY INSPECTION #2	
Anderson powerpole attachment to power source.	PASSED: 10 POINT	
15 amp (or less) single inline fuse within 30 cm of power supply		
attachment point.	Failed: Items to correct noted on rear of this sheet.	
The surface control station is built in a neat and workmanship like	SAFETY INSPECTION #3	
manner. No loose components or unsecured wires. All electrical	PASSED: 10 POINT	
components are covered inside an enclosure.		
No exposed copper or bare wire.	Failed: Reason / details are noted on rear of this sheet.	
if used, 120VAC wiring is separated from the DC wiring.		
All wires entering and leaving the surface control station must have	Total Safety Points:	
adequate strain relief and wire abrasion protection as the wires pass		
through the enclosure.	On Site Inspection	
No AC power sources	On Site Inspection	
Cameras operate off the MATE 12VDC power supply thrugh the single	0 or 10 points	
attachment point to the power source.		
* Properly sealed means that the wires cannot be exposed to water. Tape		
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, silicone self-vulcanizing tape is preferred over thermoplastic tape. Cables with

exposed male connections on both ends are not allowed.

Inspection #1: Iter	ns to address	Judge:
Inspection #2: Iter	ns to address	Judge:
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Inspection #3: Rea	son	Judge: