Company Name:

Company Number:

2023 MATE ROV COMPETITION. Diving In to Inspire Solutions Because Together Opportunity Runs Deep SCOUT CLASS SAFETY INSPECTION CHECKLIST

Companies must bring this check list, the ROV, tether, surface controls, 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, must be made available to the Safety Inspectors during the inspection process.

1.0 Initial Safety Inspection	4.0. Pneumatic / Hydraulic (if applicable)	
Fluid power used?	Pneumatic or hydraulic diagram (SID) present.	
If yes, see Section 4.0 Pneumatics / Hydraulics	Uses air for pneumtics or water for hydraulics.	
2.0 ROV Physical	No electrical pumps allowed. Manual (and or foot pumps only!)	
All items attached to ROV are secure.	No electrical pumps anowed. Manual (and of root 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.		
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 SCOUT class).	
Brushless motors are considered exposed unless electrically sealed		
after purchase. Companies should provide proof of sealing		
procedure.	SAFETY INSPECTION #1	
No exposed copper or bare wire.	PASSED: 10 POINTS	
All wiring securely fastened and properly sealed.*	Failed. Items to correct nated on rear of this shoot	
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 POINTS	
15 amp (or less) single inline fuse within 30 cm of power supply	Follow the second second second second second second second	
attachment point.	Failed: Items to correct noted on rear of this sheet.	
The surface control station is built in a neat and workmanship like		
manner. No loose components or unsecured wires. All electrical	SAFETY INSPECTION #3 PASSED: 10 POINTS	
components are covered inside an enclosure.	PASSED: 10 POINTS	
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.		
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: Items to address Judge:

Inspection #2: Items to address

Judge:

Inspection #3: Reason

Judge: