2025 MATE ROV Competition         UN Decade of the Ocean, MATE Year of the Great Lakes         Onsite Safety Inspection Score Sheet         EXPLORER         Company Number:			
Company Number: Company Name:		Judge Name:	
· · · · · ·	this sheal list the DOV tothey surface controls and		
-		d any other item used in the deployment and operation of the ROV; the safety review, technical documentation, and any additional documentation.	-
	bliance must be made available to the Safety Inspecto		nion
1.0 Initial Safety Inspe		* Properly sealed means that the wires cannot be exposed to water.	Гаре
	roved? Fluid power used?	only sealing will allow the conduction of electricity through water.	
Laser approved?	ee Section 4.0 Pneumatics / Hydraulics	4.0. Pneumatic / Hydraulic (if applicable)	
	e attached laser safety inspection sheet.	Passed fluid power quiz.	
	esent at safety inspection	Pneumatic or hydraulic diagram (SID) present?	
2.0 ROV Physical		Hydraulics utilize water. Pneumatics utilize compressed air or i	nert
	ed to ROV are secure.	gas.	nert
	s are identified and protection provided.	All pressure lines have a minimum pressure rating of	
	re completely shrouded to IP-20 standards. Mesh	100 PSI (pneumatic) or	
size is less than :		300 PSI (hydraulic)	
	or elements of the ROV design that could cause injury		
	damage the pool surface.	Valves meet the minimum pressure rating of	
3.0 ROV Electrical		100 PSI (pneumatic) or	
Tether has prop	er strain relief at the ROV.	300 PSI (hydraulic)	
No power conve	ersion before the ROV.	Attachment to the pressure source is secure.	
No exposed mot	tors.	Pressure is regulated to:	
Brushless motor	s are considered exposed unless electrically sealed	40 PSI max for pneumatics	
after purchase.	Companies should provide proof of sealing	150 PSI max for hydraulics	
procedure.		Company fabricated pressure accumulator test results are prov	ided
No exposed cop	per or bare wire.	(if used).	
	ely fastened and properly sealed.*	No hydraulic fluids are leaking.	
, ,	ther are properly sealed.*		
3.1 Surface Controls E	-		
Ţ.	nt point to the power source.		
SBS50 Anderson	powerpole attachment to power source.	SAFETY INSPECTION #1 PASSED: 30 PO	
Properly sized (L	ittlefuse brand) fuse within 30 cm of power supply	PASSED: 50 PO	11113
attachment poir	nt. Fuse size based on full load amps measurement.	Failed: Items to correct noted on rear of this sheet.	
The curface eres	trol station is built in a neat and workmanship like		
	se components or unsecured wires. All electrical	SAFETY INSPECTION #2	
	e covered inside an enclosure.	PASSED: 20 PO	INTS
	per or bare wire.	-	
	s separated from the DC wiring.	Failed: Items to correct noted on rear of this sheet.	
-	nust be clearly identified from the DC and control		
	gnage and/or wire color schemes. If the color scheme	SAFETY INSPECTION #3	
	ust be provided for identification.	PASSED: 10 PO	INTS
	g and leaving the surface control station must have	1	
adequate strain	relief and wire abrasion protection as the wires pass	Failed: Reason / details are noted on rear of this sheet.	
through the enc			
	tilized are properly rated for their application. AC	Total Safety Points:	
only rated conne	ectors cannot be used for DC.		
* At minimum, joints n	nust be soldered, sealed with a proper waterproof		
	n tape or shrink wrap. For in water taping, silicone		
	preferred over thermoplastic tape. Cables with	On Site Inspection	
exposed male connect	ions on both ends are not allowed.	0 to 30 points	

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

Judge:

Inspection #3: Reason

Judge: