Company Name:	Company Number:
_	ns: Understanding Our World And Creating Our Future AFETY INSPECTION CHECKLIST
Companies must bring this check list, the ROV, tether, surface controls, and	
will all be inspected as part of the safety check. In addition, the SID, compa	
documentation needed to verify compliance 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 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. Mesh	100 PSI (pneumatic) or
size is less than 12.5 mm.	300 PSI (hydraulic)
No sharp edges or elements of the ROV design that could cause injury	stamped on the line or verfied with specifications.
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 sealed	Pressure is regulated to:
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 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 ATO or MINI fuse within 30 cm of power supply	No hydraulic fluids are leaking.
attachment point.	Pneumatics utilize compressed air or inert gas.
The surface control station is built in a neat and workmanship like	
manner. No loose components or unsecured wires. All electrical	
components are covered inside an enclosure.	SAFETY INSPECTION #1
components are covered made 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.
120VAC wiring must be clearly identified from the DC and control	
voltages with signage and/or wire color schemes. If the color scheme	SAFETY INSPECTION #2
is used, a key must be provided for identification.	PASSED: 20 POINTS
	Tailad. Hawar to assure to a tool any years of this shoot
All wires entering and leaving the surface control station must have	Failed: Items to correct noted on rear of this sheet.
adequate strain relief and wire abrasion protection as the wires pass	
through the enclosure.	SAFETY INSPECTION #3
All connectors utilized are properly rated for their application. AC	PASSED: 10 POINTS
only rated connectors cannot be used for DC.	Failed: Reason / details are noted on rear of this sheet.
	railed: Reason / details are noted on rear of this sheet.
* Properly sealed means that the wires cannot be exposed to water. Tape	Total Cafaty Daints
only sealing will allow the conduction of electricity through water.	Total Safety Points:
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At minimum, joints must be soldered, sealed with a proper waterproof	On Site Inspection
sealant, and covered in tape or shrink wrap. For in water taping, silicone	0 to 30 points
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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:	