COMPANY NAME:	COMPANY NUMBER:	
2017 MATE ROV	COMPETITION	
	ce, Entertainment, Health, and Safety	
· · · · · · · · · · · · · · · · · · ·	SAFETY CHECK LIST	
Companies must bring this check list, the ROV, tether, surface	afety check. In addition, the SID, technical documentation, and	
any additional documentation needed to verify compliance mus		
process.	st be made available to balety hispectors during the hispection	
process.		
1.0 Initial Inspection Results	Cameras operate off the MATE 12VDC power	
0, 5 or 10 points	supply through the single attachment point to	
Fluid Power appropriate for class (manual pumps	power source	
only) – see section 4.0.	Transfer of the second of the	
2.0 ROV Physical	All connectors utilized are properly type rated for	
All items attached to ROV are secure.	their application. AC only rated connectors not be	
Hazardous items are identified and protection	used for DC	
provided.		
ALL Propellers are completely shrouded or are	*Properly sealed means that the wires cannot be exposed	
enclosed inside the frame of the ROV.	to water. Tape only sealing will allow the conduction of	
No sharp edges or elements of ROV design that	electricity through water.	
could cause injury to personnel or damage to pool	At minimum joints must be soldered, then sealed with	
surface.	silicone sealant and then finally taped. For in water	
3.0 ROV Electrical	taping, silicone self-vulcanizing tape is preferred over	
Tether is properly secured at the ROV.	thermoplastic tape. Cables with exposed male connections	
No exposed motors.	on both ends are not allowed.	
Brushless motors are considered exposed unless	on both chas are not anowed.	
electrically sealed after purchase. Companies	4.0 Pneumatic / Hydraulic (if applicable)	
should provide proof of sealing procedure.	Pneumatic or hydraulic diagrams present?	
No exposed copper or bare wire.	Hand or Foot pump only?	
All wiring securely fastened and properly sealed*.	Uses water or air only?	
Any splices in tether are properly sealed*.	No Pressure Accumulators?	
3.1 Surface Controls Electrical & Physical	Any container that air is being pumped into is	
Single attachment point to power source.	vented to the pool with vent holes at least 1/4"	
Anderson Power Plugs for electrical attachment	(6.35mm) diameter?	
15 amp single inline fuse or circuit breaker within		
30cm of power supply attachment point.	5.0 Lasers	
Surface control station is built in a neat and	No Lasers Present – Not permitted in	
workmanship like manner. No Loose components	NAVIGATOR class	
or unsecured wires. All electrical components		

**INSPECTION #1** 

**INSPECTION #2** 

**INSPECTION #3** 

Total Safety Points

**FAILED:** Items to correct: (see rear of this sheet)

**FAILED:** Items to correct: (see rear of this sheet)

Initial Inspection [0 to 10] \_\_\_\_\_\_.

Total Points [0 to 20]

On Site Inspection [0 to 10]

**FAILED:** Reason (see rear for details)

**POINTS** 

**POINTS** 

**POINTS** 

PASSED: 10

PASSED: 10

PASSED:

covered inside an enclosure.

methods are not acceptable

provided for identification.

No exposed copper or bare wire.

Tether is properly secured at the surface control.

All wires entering and leaving the surface control station must have adequate strain relief and wire

abrasion protection as the wires pass through the

If used, 120VAC wiring is separated from the DC

If used, 120VAC wiring must be clearly identified

from the DC and control voltages with signage and/or wire color schemes. If color schemes, key

enclosure. Tape, zip ties, string and similar

wiring (used for AC powered monitor).

Inspect	ion #1: Items to address	Judge:
Inspect	ion #2: Items to address	Judge:
1		
Inspection #3: Reason Judge:		
mspeci	ion #5: Reason Ju	udge: