Companies must bring this check list, the ROV, tether, surface operation of the ROV. They will all be inspected as part of the provided to the Safety Judges during the inspection process.	ce controls, and any other item used in the deployment and he safety check. In addition, documentation listed below must be
1.0 Documentation	
Electrical schematics & power distribution	4.0 Pneumatic / Hydraulic (if using)
diagrams	Pneumatic diagram?
Fuse shown in electrical schematics?	Hand or foot pump only?
Pneumatics or Hydraulics Used?	No electrical pump used?
See item 4.0	Uses water or air only?
2.0 Physical	No pressure accumulators?
Propellers are enclosed inside the frame of the	No closed containers that air is being pumped
ROV or shrouded such that they will not make	into? All containers vent to pool?
contact with items outside of the ROV.	Buoyancy chamber vent holes at least 1/4"
No sharp edges or elements of ROV design that	(6.35mm) diameter?
could cause injury to personnel or damage to	5.0 Lasers
pool surface.	No Lasers Present Not allowed in
All items attached to ROV are secure and will	NAVIGATOR Class
not fall off.	
Hazardous items are identified and protection	INSPECTION #1 PASSED: 10
provided.	POINTS
3.0 Electrical	FAILED: Items to correct:
Single attachment point to power source.	
Standard male banana plugs to connect to	
MATE power source.	
15 amp single inline fuse or circuit breaker	INSPECTION #2 PASSED: 10
within 30cm of attachment point.	POINTS
Motors are waterproofed.	FAILED: Items to correct:
No exposed motors.	
Brushless motors are considered exposed unless	
electrically sealed after purchase.	
All wiring securely fastened and properly	
sealed*.	INSPECTION #3 PASSED: 10
Any splices in tether are properly sealed*.	POINTS
Tether is properly secured at surface control	FAILED: Reason
point and at ROV.	
Surface controls: All wiring and devices	
properly secured.	
Surface controls: All control elements are	
mounted with wiring inside an enclosure.	Cleared to enter the water:
No AC power sources.	
Cameras operate off the MATE 12VDC power	
supply through the single attachment point to	
power source.	Signature of competition official
*Properly sealed means that the wires cannot be exposed to	DAGG TAN GTAND
water. Tape only sealing will allow the conduction of	PASS/FAIL STAMP
electricity through water. At minimum joints must be soldered, then sealed with silicone sealant and then finally	
taped. For in water taping, silicone self-vulcanizing tape is	

2015 MATE ROV COMPETITION SCIENCE AND INDUSTRY IN THE ARCTIC NAVIGATOR CLASS SAFETY CHECK LIST

COMPANY NUMBER:

COMPANY NAME:

preferred over thermoplastic tape. Male to male connectors

are not allowed.