SCOUT CLASS SAFETY CHECK LIST 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, Technical Report and any additional documentation needed to verify compliance must be made available to Safety Inspectors during the inspection process.			
1.0 Initial Inspection Results	*Properly sealed means that the wires cannot be exposed		
0 to 10 points	to water. Tape only sealing will allow the conduction of		
Fluid Power appropriate for class (manual pumps	electricity through water.		
only – see section 4.0.	At minimum joints must be soldered, then sealed with		
2.0 ROV Physical	silicone sealant and then finally taped. For in water		
All items attached to ROV are secure.	taping, silicone self-vulcanizing tape is preferred over		
Hazardous items are identified and protection	thermoplastic tape. Cables with exposed male connections		
provided.	on both ends are not allowed.		
ALL Propellers are completely shrouded or are			
enclosed inside the frame of the ROV.	4.0 Pneumatic / Hydraulic (if applicable)		
No sharp edges or elements of ROV design that	Pneumatic or hydraulic diagrams present?		
could cause injury to personnel or damage to pool	Hand or Foot pump only?		
surface.	Uses water or air only?		
3.0 ROV Electrical	No Pressure Accumulators?		
Tether is properly secured at the ROV.	Any container that air is being pumped into is		
No exposed motors.	vented to the pool with vent holes at least 1/4"		
Brushless motors are considered exposed unless	(6.35mm) diameter?		
electrically sealed after purchase. Companies	5.0 Lasers		
should provide proof of sealing procedure.	No Lasers Present – Not permitted in SCOUT		
No exposed copper or bare wire.	class		
All wiring securely fastened and properly sealed*.	INSPECTION #1 PASSED: 10		
Any splices in tether are properly sealed*. 3.1 Surface Controls Electrical & Physical	POINTS PASSED: 10		
Single attachment point to power source.	FAILED: Items to correct: (see rear of this sheet)		
Anderson Power Plugs for electrical attachment	PAILED. Items to correct. (see rear of this sheet)		
15 amp (or less) single inline fuse within 30cm of	INSPECTION #2 PASSED: 10		
power supply attachment point.			
Surface control station is built in a neat and FAILED: Items to correct: (see rear of this sheet)			
workmanship like manner. No Loose components			
or unsecured wires. All electrical components	INSPECTION #3 PASSED: 10		
covered inside an enclosure.			
Tether is properly secured at the surface control.	FAILED: Reason (see rear for details)		
No exposed copper or bare wire.	, ,		
All wires entering and leaving the surface control	Total Safety Points		
station must have adequate strain relief and wire	Initial Inspection [0 to 10]		
abrasion protection as the wires pass through the			
enclosure. Tape, zip ties, string and similar	On Site Inspection [0 to 10]		
methods are not acceptable			
No AC Power Sources	Total Points [0 to 20]		
Cameras operate off the MATE 12VDC power			
supply through the single attachment point to			
power source			

All connectors utilized are properly type rated for their application. AC only rated connectors not be

used for DC

2018 MATE ROV COMPETITIONJet City: Aircraft, Earthquakes and Energy

COMPANY NUMBER:

COMPANY NAME:_

Inspection #1: Items to address Judge:		
Inspection #2: Items to address		
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Inspection #3: Reason Judge:		