COMPANY NAME:	COMPANY NUMBER:			
A01 CM A DE DOM COM DEDICAL				

2016 MATE ROV COMPETITION

From the Gulf of Mexico to Jupiter's Moon Europa: ROV Encounters in Inner and Outer Space NAVIGATOR 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 documentation, and any additional documentation needed to verify compliance must be made available to Safety Inspectors during the inspection process.

1.0 Initial Inspection Results				
	0, 5 or 10 points			
	Fluid Power Used & Approved for Use?			
	If yes to both, see item #4			
2.0 R	OV Physical			
	All items attached to ROV are secure.			
	Hazardous items are identified and protection			
	provided.			
	ALL Propellers are completely shrouded or are			
	enclosed inside the frame of the ROV.			
	No sharp edges or elements of ROV design that			
	could cause injury to personnel or damage to pool			
	surface.			
3 0 PC	OV Electrical			
3.0 K	Tether is properly secured at the ROV.			
	No exposed motors.			
	Brushless motors are considered exposed unless			
	electrically sealed after purchase. Companies			
	should provide proof of sealing procedure.			
	No exposed copper or bare wire.			
	All wiring securely fastened and properly sealed*.			
	Any splices in tether are properly sealed*.			
216	rface Controls Electrical & Physical			
3.1 Su	Single attachment point to power source.			
	Anderson Power Plugs for electrical attachment			
	(or banana plugs if still used by regional) 15 amp single inline fuse or circuit breaker within			
	30cm of power supply attachment point. Surface control station is built in a neat and			
	workmanship like manner. No Loose components or unsecured wires. All electrical components			
	covered inside an enclosure.			
	Tether is properly secured at the surface control.			
	No exposed copper or bare wire.			
	All wires entering and leaving the surface control			
	station must have adequate strain relief and wire			
	abrasion protection as the wires pass through the			
	enclosure. Tape, zip ties, string and similar			
	methods are not acceptable No AC Power Sources			
	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			

*Properly sealed means that the wires cannot be exposed to water. Tape only sealing will allow the conduction of 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 preferred over thermoplastic tape. Cables with exposed male connections on both ends are not allowed.

4.0 Pneumatic / Hydraulic (if applicable)		
	Passed pneumatics/hydraulics test.	
	Pneumatic or hydraulic diagrams present?	
	Hand or Foot pump only?	
	Uses water or air only?	
	No Pressure Accumulators?	
	Any container that air is being pumped into is vented to the pool with vent holes at least 1/4" (6.35mm) diameter?	
5.0 Lasers		
	No Lasers Present – Not permitted in	
	NAVIGATOR class	

INSPECTION #1	PASSED: 10
POINTS	
FAILED: Items to correct	: (see rear of this sheet)
INSPECTION #2	PASSED: 10
POINTS	
FAILED: Items to correct	: (see rear of this sheet)
INSPECTION #3	PASSED: 10
POINTS	I ASSED. 10
	C 1-4-9-)
FAILED: Reason (see rea	ir for details)
Total Safety Points	
Initial Inspection [[0 to 10]
On Site Inspection [[0 to 10]
Total Points	[0 to 20]

Inspectio	on #1: Items to address	Judge:
Inspection	on #2: Items to address	Judge:
Inspection	on #3: Reason Ju	ndge: