## COMPANY NAME:

## **COMPANY NUMBER:**

## 2018 MATE ROV COMPETITION

Jet City: Aircraft, Earthquakes and Energy

**EXPLORER CLASS Non-ROV Device Power Specifications and Independent Sensors 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, company safety review, technical documentation, and any additional documentation needed to verify compliance must be made available to the Safety Inspectors during the inspection process.

Non-ROV Device Powered Item		
	ELEC-NRD-001: Non-ROV devices can be	
	powered from the surface or from batteries	
	onboard the device. Power is limited to 12	
	VDC maximum and 3 amps maximum.	
	ELEC-NRD-002: Any non-ROV device may not	
	contain thrusters or cameras, and can only	
	include systems relevant to the task it is	
	completing.	
	ELEC-NRD-003: If powered from the surface,	
	the device must have a 3 amp fuse within 30	
	cm of the power source and must use	
	Anderson Powerpole connectors. The cable	
	and Anderson Powerpole connections must	
	be completely independent of the ROV	
	control console. I.e. wires/cables from the	
	non-ROV device must not touch the ROV	
	control box or any wires/cables coming from	
	the ROV control box.	
	ELEC-NRD-004: Onboard power is allowed for	
	non-ROV devices. If onboard batteries are	
	being used,	
	the following specifications must be met:	
	<ul> <li>Batteries must be primary (non-</li> </ul>	
	rechargeable).	
	• AAA, AA, A, A23, C, D or 9V alkaline	
	batteries are allowed. Alkaline Only.	
	<ul> <li>Batteries are mounted in a manner that</li> </ul>	
	they are not loose inside the container.	
	<ul> <li>A fuse (3 amps max) must be installed</li> </ul>	
	within 5 cm of the battery positive terminal.	
	• The enclosure housing must be designed so	
	that it will open if the pressure inside the	
	housing is greater than the outside pressure.	
	• The enclosure housing must be designed so	
	that it will release pressure if pressure inside	
	the housing is greater than the outside	
	pressure. Under no condition should the	
	housing be built with fasteners to hold the	
	device together if there is no pressure release	
	valve.	

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