Company Name:		Company Number:	
2023 MATE ROV COMPETITION			
Observing Our Oceans: Understanding Our World And Creating Our Future EXPLORER/PIONEER/RANGER CLASS Non-ROV Device Power Specifications and Independent Sensors SAFETY CHECK LIST. Companies must bring this check list with them to their safety inspection.			
In 2024, only the vertical profiling float qualifies as a non-ROV device.			
ELEC-NRD-001: Non-ROV devices powered from the surface. Power VDC maximum and 6 amps maxim	is limited to 12	Independent Sensors  ELEC-IS-001: Independent sensors must be powered from the surface; no onboard batteries are allowed.	
ELEC-NRD-002: The device may not thrusters are allowed only for a R float.		ELEC-IS-002: Companies may use USB to connect their sensor to a computer.  Companies may also use surface battery packs (limited to 12 volts maximum) or the MATE supply to provide power for their independent sensor.  ELEC-IS-003: The independent sensor may only contain the intended sensor; thrusters, cameras, or other systems MAY NOT be attached.	
ELEC-NRD-004: Onboard power is ROV devices. If onboard batteries the following specifications must	are being used,		
Batteries must be primary (non-	rechargeable).		
<ul> <li>AAA, AA, A, A23, C, D or 9V alka allowed. Alkaline batteries only.</li> </ul>		ELEC-IS-004: Companies that use an independent sensor must provide a 3 amp (or	
<ul> <li>Batteries are mounted in a man not loose inside the container.</li> </ul>	ner that they are	less) fast blow fuse on the positive side of their connection.	
A fuse (7.5 amps max) must be i cm of the battery positive termina	al.	ELEC-IS-005: An SID must be submitted for an independent sensor that uses electrical	
<ul> <li>The enclosure housing must be it will open if the pressure inside t greater than the outside pressure</li> </ul>	the housing is	power.	
<ul> <li>Any pressure relief plug MUST be in diameter.</li> </ul>	e at least 2.5 cm		
The enclosure housing must be it will release pressure if pressure housing is greater than the outsid Under no condition should the howith fasteners to hold the device is no pressure release valve.	inside the e pressure. using be built		

ELEC-NRD-005: An SID must be submitted for a Non-ROV device that uses electrical power.