

COMPANY NAME: \_\_\_\_\_

COMPANY NUMBER: \_\_\_\_\_

**2023 MATE ROV COMPETITION**

**UN Decade of the Ocean: Diving In to Inspire Solutions Because Together Opportunity Runs Deep**

***LASER SAFETY CHECK LIST***

Companies must bring this check list attached to the main safety checklist to the Safety Inspection.

<b>1.0 Documentation</b>	
	<b>Laser specification sheet provided</b>
	<b>Laser included on SID</b>
	<b>Team is on Preapproved Laser list</b>
<p><b>Safety inspectors should check the laser specification sheet provided by the company to make sure the laser meets the necessary requirements (listed below).</b></p>	
<b>2.0 Specifications</b>	
	<b>Lasers have an on/off switch on the surface controller</b>
	<b>Laser powered through the MATE surface power supply; no batteries onboard the ROV powering the laser.</b>
	<b>Visible Laser in 630-680 nm (red) or near 532 nm (green)</b>
	<b>Class I, Class II, or Class IIIa Category</b>
	<b>Red Laser: 5mW or less Green Laser: 1.5 mW or less</b>
	<b>Laser voltage at or below laser rated voltage</b>
	<b>Presence of Laser shield or beam stop attachment within 30 cm of laser when out of water</b>
	<b>Shield is painted flat black</b>
	<b>Shield is permanently attached to vehicle and cannot be easily removed by hand</b>
	<b>Laser is not focused or deviates from collimated beam</b>
	<b>Team has laser safety glasses for all members at safety inspection; a specification sheet for the laser safety glasses is provided.</b>

<b>LASER Safety Inspection Result</b>	
<p><b>If failed, note the failed items and deduct points on the main safety sheet (companies that utilize a laser but fail to meet all the specifications, fail their main safety inspection).</b></p>	
<p><b>LASER Inspection Passed</b></p>	
<p>_____</p> <p><b>Signature of competition official</b></p>	
<p><b>PASSED STAMP:</b></p>	