

COMPANY NAME: _____

COMPANY NUMBER: _____

2021 MATE ROV COMPETITION

Excite, Educate, Empower: Students Engineering Solutions to Global Problems

EXPLORER & RANGER LASER SAFETY CHECK LIST

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

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

LASER Safety Inspection Result
<p>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).</p>
<p>LASER Inspection Passed</p>
<p>_____ Signature of competition official</p>
<p>PASSED STAMP:</p>