



2025 MATE ROV Competition
UN Decade of the Ocean, MATE Year of the Great Lakes
LASER Safety Check List
EXPLORER, PIONEER, RANGER, NAVIGATOR

Company Number:	Class: EX PN RN NV
Company Name:	Judge Name:

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

1.0 Documentation	
	Laser specifications sheet provided
	Laser safety glasses specifications sheet provided
	Laser is included on SID
	Team is on pre-approved Laser List

Safety inspectors should check the laser specification sheet provided by the company to make sure the laser meets the necessary requirements (listed below)	
2.0 Specifications	
	Lasers have an on/off switch
	Laser is powered through the MATE surface supply; no batteries onboard the ROV powering the laser.
	Visible laser in the 630-680 nm (red) or near 532 nm (green)
	Class I, Class II, or Class IIIa Category
	Red Laser: 5mW or less
	Green Laser: 1.5mW or less
	Laser voltage at or below the laser rated voltage
	Presence of a laser shield or beam stop attachment within 30 cm of laser when out of water
	Shield is painted flat black
	Shield is permanently attached to vehicle and cannot be easily removed by hand
	Laser is not focused or deviated 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 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).
Laser Safety Inspection Passed
Signature of competition official or Passed Stamp: