



2025 MATE ROV Competition
UN Decade of the Ocean, MATE Year of the Great Lakes
Onsite Safety Inspection Score Sheet
SCOUT

Company Number:

Class: SCOUT

Company Name:

Judge Name:

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, must be made available to the Safety Inspectors during the inspection process.

1.0 Initial Safety Inspection

Fluid power used?
If yes, see Section 4.0 Pneumatics / Hydraulics

2.0 ROV Physical

All items attached to ROV are secure.
Hazardous items are identified and protection provided.
ALL propellers are completely shrouded or are enclosed inside the frame of the ROV.
No sharp edges or elements of the ROV design that could cause injury to personnel or damage the pool surface.

3.0 ROV Electrical

Tether is properly secured at the ROV.
No exposed motors.
Brushless motors are considered exposed unless electrically sealed after purchase. Companies should provide proof of sealing procedure.
No exposed copper or bare wire.
All wiring securely fastened and properly sealed.*
Any splices in tether are properly sealed.*

3.1 Surface Controls Electrical & Physical

Single attachment point to the power source.
Anderson powerpole attachment to power source.
15 amp (or less) single inline **ATO** or **MINI** fuse within 30 cm of power supply attachment point.
The surface control station is built in a neat and workmanship like manner. No loose components or unsecured wires. All electrical components are covered inside an enclosure.
No exposed copper or bare wire.
All wires entering and leaving the surface control station must have adequate strain relief and wire abrasion protection as the wires pass through the enclosure.
No AC power sources
Cameras operate off the MATE 12VDC power supply through the single attachment point to the power source.

* Properly sealed means that the wires cannot be exposed to water. Tape only sealing will allow the conduction of electricity through water.

* At minimum, joints must be soldered, sealed with a proper waterproof sealant, and covered in tape or shrink wrap. For in water taping, silicone self-vulcanizing tape is preferred over thermoplastic tape. Cables with exposed male connections on both ends are not allowed.

4.0. Pneumatic / Hydraulic (if applicable)

Pneumatic or hydraulic diagram (SID) present.
Hydraulics utilize water. Pneumatics utilize compressed air.
No electrical pumps allowed. Manual (and or foot pumps only!)
No pressure accumulators (pressure inside a container should never be higher than ambient pressure).
Any container that air is being pumped into is vented to the pool with vent holes at least 1/4-inch (6.35 mm) diameter.

5.0 Lasers

No lasers present (lasers are not allowed in the SCOUT class).

SAFETY INSPECTION #1

PASSED: 10 POINTS

Failed: Items to correct noted on rear of this sheet.

SAFETY INSPECTION #2

PASSED: 10 POINTS

Failed: Items to correct noted on rear of this sheet.

SAFETY INSPECTION #3

PASSED: 10 POINTS

Failed: Reason / details are noted on rear of this sheet.

Total Safety Points:

On Site Inspection

0 or 10 points

Inspection #1: Items to address

Judge:

[illegible]

Inspection #2: Items to address

Judge:

[illegible]

Inspection #3: Reason

Judge:

[illegible]