

Company Name:

Company Number:

2021 MATE ROV Competition
Excite, Educate, Empower: Students Engineering Solutions to Global Problems
EXPLORER CLASS INITIAL SAFETY AND DOCUMENTATION REVIEW

Submission is on time, within the given size limit, uses the proper naming convention, is a PDF file, and is submitted with the other documents.

1	0	Technical documentation
1	0	Company spec sheet
1	0	SID(s)
1	0	Non-ROV device design specifications
1	0	Company safety review

SID

1	0	SID is 1 page in length and drawn with CAD (is not hand drawn)
1	0	SID shows a fuse and fuse uses a proper IEC, NEMA, or ANSI symbol
1	0	SID includes proper fuse calculations
1	0	SID is a higher level interconnection diagram, not component level electrical schematic

Non-ROV Device SID (powered Seabin connector and drain pipe device)

1	0	Each Non-ROV device SID is 1 page in length and drawn with CAD (is not hand drawn)
or		
1		Company states they are not attempting the non-ROV tasks

SID fluid power

1	0	Fluid power SID is 1 page in length and drawn with CAD (is not hand drawn)
1	0	Fluid power SID uses industry standard symbols
or		
2		Company safety review states fluid power is not used.

Non-ROV device design documents

1	0	Non-ROV devices are properly documented
or		
1		Company states they are not attempting the non-ROV tasks

Company safety review (photos are required for each system)

1	0	ROV uses Anderson SBS-50 connectors and has a properly sized fuse within 30 cm
1	0	Company safety review includes proper fuse calculations
1	0	Control box/console is neatly laid out and does not have exposed wiring
1	0	AC and DC are separated and identified in control box, or AC is not used
1	0	ROV has adequate ROV-side strain relief and pressure housings can withstand depth
1	0	All propellers are properly shrouded and protected to IP-20 standards
1	0	No sharp edges or dangerous components are seen on ROV

TOTAL POINTS:

Company has passed fluid power quiz	Yes	No
Company is on approved laser list	Yes	No
Company is on approved pressure release valve list	Yes	No