

Company Name: Company Number:

2023 MATE ROV Competition
Diving In to Inspire Solutions Because Together Opportunity Runs Deep
PIONEER 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

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

Company safety review (photos are required for each system)

1	0	ROV uses Anderson connectors and has a properly sized fuse within 30 cm. Companies using 48 volts use an Anderson SBS50 connector and properly sized Littelfuse.
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