

Company Name:

Company Number:

**2018 MATE ROV Competition**  
**Jet City: Aircraft, Earthquakes, and Energy**  
**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	Lift bag release mechanism specifications
1	0	Company safety review

\*Image recognition documentation is not included in this 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	Non-ROV device SID is 1 page in length and drawn with CAD (is not hand drawn)
or		
1		Company does not use a powered Non-ROV device

**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.

**Lift bag release mechanism**

1	0	Lift bag release mechanism is properly documented
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**Company safety review**

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 strain relief and any 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