

Risk Assessment Matrix

The seriousness of a risk will be evaluated by two criteria: the likelihood of an event to occur and the impact of the event should it happen or fail to be prevented.

Likelihood Of Event

Category	Value	Guage
Remote	1	Less than 1% chance of occurrence.
Unlikely	2	Less than 20% chance of occurrence.
Possible	3	Less than 50% chance of occurrence.
Likely	4	Less than 85% chance of occurrence.
Very Likely	5	Greater than 85% chance of occurrence.

Impact of Event

Category	Value	Guage
Negligible	1	Minimal injury, damage to equipment or facility, or environmental effects. Flight continues as normal.
Minor	2	Minor injuries, major reversible damage to equipment or facility, and minor environmental impact. Flight proceeds with caution.
Moderate	3	Moderate injuries, reversible failure, and reversible environmental impact. Flight is put on hold until effects are reversed.
Major	4	Potentially serious injuries, partial failure, and serious reversible environmental effects. Flight is scrubbed or put on hold until system is removed.
Disastrous	5	Potentially life threatening injury, total failure, and serious irreversible environmental damage. Flight is scrubbed or completely destroyed

By cross examining the likelihood of an event with the impact it would have if it occurred, a new table is created that yields a total risk for our safety matrix.

Category	Negligible	Minor	Moderate	Major	Disastrous
Remote	1	2	3	4	5
Unlikely	2	4	6	8	10
Possible	3	6	9	12	15

Likely	4	8	12	16	20
Very Likely	5	10	15	20	25