



# SAFETY MANAGEMENT SYSTEM

## FOUR PILLARS OF SAFETY MANAGEMENT:

- **Safety Policy** – Clearly defined policies, procedures, and organizational structure.
- **Safety Risk Management** – Formal system of hazard identification, risk assessment, resource allocation, and system monitoring.
- **Safety Assurance** – Continuous quality improvement of processes and products.
- **Safety Promotion** – Continuous communication of safety values and practices that support a sound safety culture.

## CHARACTERISTICS OF A SYSTEMS APPROACH TO SAFETY MANAGEMENT:

- Assign responsibility and authority to individuals tasked with the accomplishment of safety action.
- Provide clear instructions to members of the organization.
- Establish interfaces between individuals and organizations to facilitate safety action.
- Establish measurements of processes and products of the system.
- Establish organizational controls to ensure system output accomplishes the intended objective.

## RISK ASSESSMENT MATRIX

SEVERITY LEVELS						LIKELIHOOD LEVELS				
RATING	PHYSICAL INJURY	DAMAGE TO THE ENVIRONMENT	DAMAGE TO ASSETS	POTENTIAL INCREASED COST OR REVENUE LOSS	DAMAGE TO CORPORATE REPUTATION	A UNKNOWN BUT POSSIBLE IN THE AVIATION INDUSTRY	B KNOWN IN THE AVIATION INDUSTRY	C OCCURRED IN THE COMPANY	D REPORTED >3X/YR WITHIN THE COMPANY	E REPORTED >3X/YR AT A PARTICULAR LOCATION
0	No Injury	No Effect	No Damage	No Increased Cost Or Lost Revenue	No Implication	ACCEPTABLE				
1	Minor Injury	Minor Effect	Minor Damage < US \$50K	Minor Loss < US \$50K	Limited Localized Implication					
2	Serious Injury	Contained Effect	Substantial Damage < US \$250K	Substantial Loss < US \$250K	Regional Implication			ACCEPTABLE WITH MITIGATION		UNACCEPTABLE
3	Single Fatality	Major Effect	Major Damage < US \$1M	Major Loss < US \$1M	National Implication					
4	Multiple Fatalities	Massive Effect	Catastrophic Damage ≥ US \$1M	Massive Loss ≥ US \$1M	International Implication					