

Hazard Taxonomy - Commercial Aircraft Operations

Phases of Flight	Hazard (<i>Hazardous Activity - Generic</i>)	Hazard Variant (<i>Hazardous Activity - Variants</i>)	Top Events (<i>Loss of System Control Events</i>)
Ground handling activities	Passenger embarking/disembarking aircraft	Passenger via gate	Aircraft roll-back on stand
		Passenger via steps	Ground handling vehicle collides with aircraft
	Cargo Loading	<i>No variants defined.</i>	Unstable cargo load
	Re-Fuelling	<i>No variants defined.</i>	Fuel ignites during re-refuelling
Push Back	Aircraft push back from gate	<i>No variants defined.</i>	Unauthorised manoeuvre Excessive Jet Blast
Taxiing	Aircraft taxiing to runway	Aircraft taxiing in single runway environment Aircraft taxiing in multi-runway environment	Aircraft deviates from clearance/ Unauthorised manoeuvre
			Unsafe clearance to aircraft
			Excessive Jet Blast Wildlife infringement
	Aircraft de-icing	<i>No variants defined.</i>	Insufficient de-icing
Departure	Aircraft taking off	Aircraft departing on single runway Aircraft departing on parallel runways Aircraft departing on crossing runways	Aircraft deviates from clearance
			Unsafe clearance to aircraft
			Drone infringes into controlled airspace
			General aviation infringes into controlled airspace
			Bird Strike
			Wildlife infringement
			Tail strikes ground
			Incorrect Take-Off Settings
En-route	Aircraft flying in en-route	Commercial aircraft flying in terminal airspace Commercial aircraft flying in en-route airspace Commercial aircraft flying in free-route airspace	Aircraft deviates from clearance
			Unsafe clearance to aircraft
			Aircraft deviates from flight path
			Aircraft encounters turbulence (normal weather phenomenon)
Approach	Aircraft on approach	Visual Approach to runway Instrument approach to parallel runways	Aircraft encounters wake turbulence
			Aircraft deviates from flight path
Go-Around	Aircraft on go-around	Low-level go around High-level go around	Aircraft deviates from flight path
			Aircraft deviates from clearance

Phases of Flight	Hazard (Hazardous Activity - Generic)	Hazard Variant (Hazardous Activity - Variants)	Top Events (Loss of System Control Events)
Landing	Aircraft landing	<i>No variants defined.</i>	Aircraft deviates from clearance
			Unsafe clearance to aircraft
			Wrong surface landing
			Unstable Approach
Taxiing	Aircraft taxiing to gate	<i>No variants defined.</i>	Aircraft deviates from clearance
			Unauthorised manoeuvre
			Unsafe clearance to aircraft
			Wildlife infringement
All Phases	Aircraft flying in airspace	<i>No variants defined.</i>	Loss of critical aircraft systems
			Explosives on board
			Laser Beam
			Loss of global positioning system
			Hijacking by third party
			Malicious take over of aircraft by Flight Crew
			Third party malicious takeover of control of aircraft from ground.
			Immediate loss of air traffic services
			High altitude balloon
			Space vehicle taking off
	Aircraft Flying with Dangerous Goods	Aircraft Flying with Lithium Batteries	
Lithium Battery Fire in Cargo			
Battery explosion			