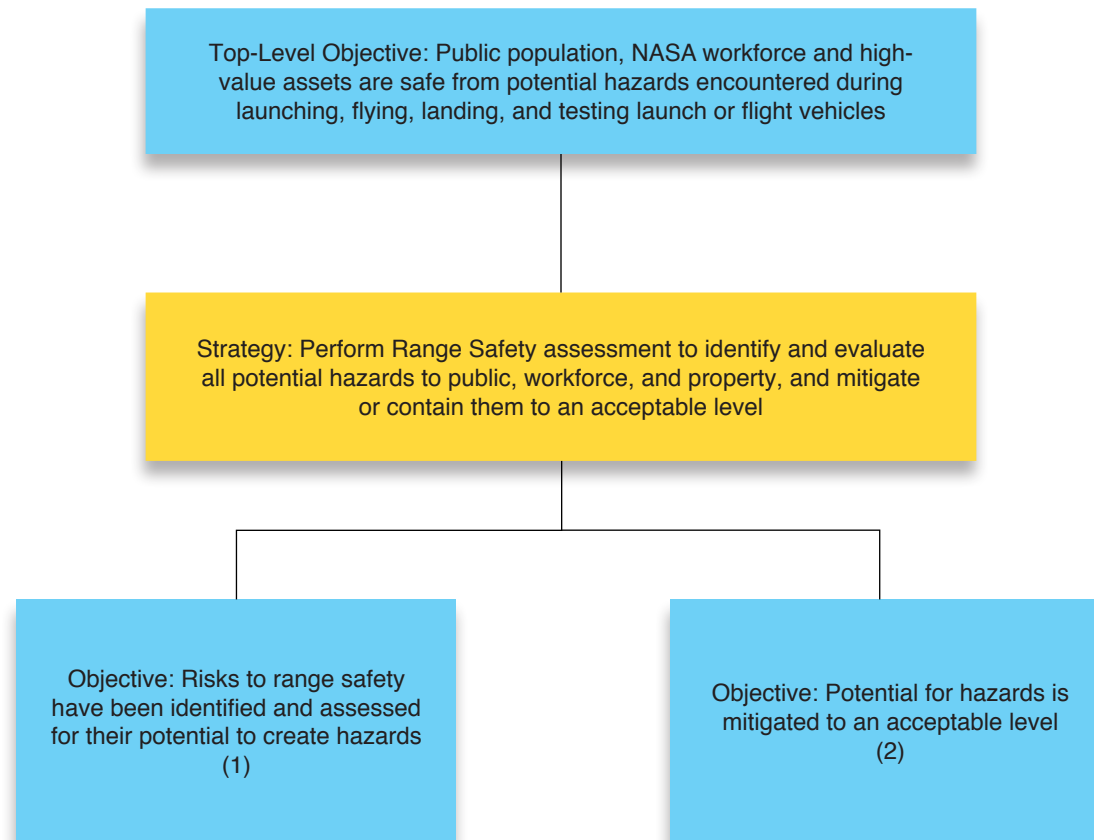


Range Safety Objectives Hierarchy

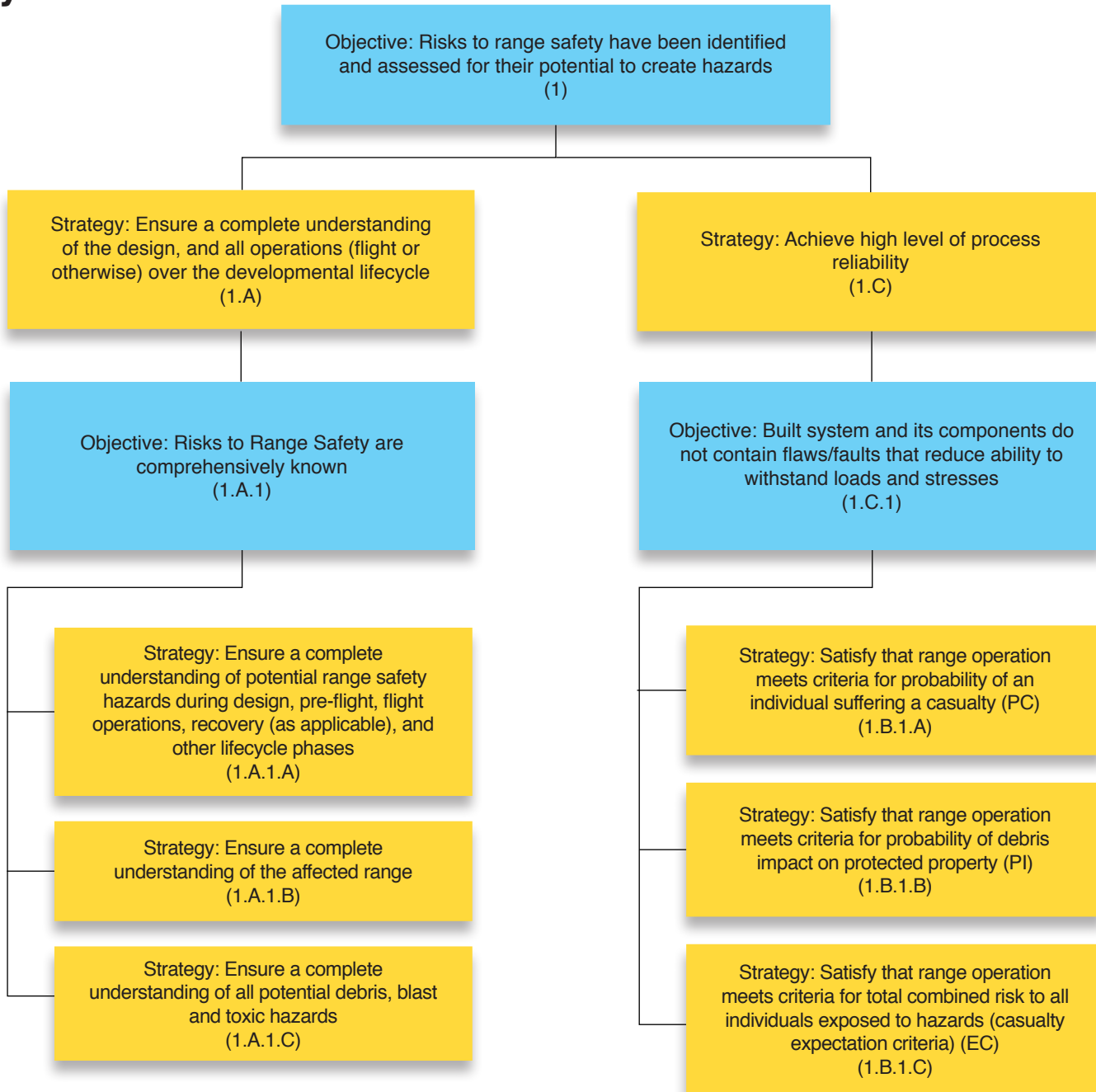
Range Safety Objectives Hierarchy – Top Level



RS Hierarchy

Sub – Obj.

1



RS Hierarchy

Sub – Obj.

2

Objective: Potential for hazards is mitigated to an acceptable level (2)

Strategy: Make vehicle design decisions needed to mitigate hazards (2.A)

Objective: Vehicle design precludes potential hazards (2.A.1)

Strategy: Implement on-vehicle flight termination system in vehicle design (2.A.1.A)

Strategy: Implement on-vehicle flight tracking system (2.A.1.B)

Strategy: Implement on-vehicle flight tracking system (2.A.1.B)

Strategy: Ensure that vehicle flight profile is suitable to meet range safety concerns (2.A.1.D)

Strategy: Develop range operational procedures necessary to mitigate hazards (2.B)

Objective: Range and operational procedures preclude potential hazards (2.B.1)

Strategy: Implement range instrumentation for monitoring flight (2.B.1.A)

Strategy: Establish range safety weather criteria (2.B.1.B)

Strategy: Establish range hazard areas (2.B.1.C)

Strategy: Perform preliminary collision avoidance assessment for on-orbit manned or mannable crafts (2.B.1.D)

Strategy: Establish surveillance practices to ensure clear range (2.B.1.E)

Strategy: Establish flight termination criteria and contingency operations (2.B.1.F)

Strategy: Employ operational controls to mitigate hazards during flight (2.C)

Objective: Operational controls preclude potential hazards during flight (2.C.1)

Strategy: Assess range instrumentation readiness (2.C.1.A)

Strategy: Assess range clearance (ground, sea, air) (2.C.1.B)

Strategy: Assess weather conditions for flight (2.C.1.C)

Strategy: Assess collision launch avoidance with on-orbit manned or mannable crafts (2.C.1.D)

Strategy: Re-assess risks to public, workforce, or assets given day-of-flight conditions (2.C.1.E)

Strategy: Assess vehicle flight progression and terminate flight if necessary (2.C.1.F)

Strategy: Apply contingency operations in the case of flight termination (2.C.1.G)

Strategy: Participate in mishap investigations as necessary (2.C.1.H)