SORA Documentation References

Step #10 Comprehensive Safety Portfolio

Compliance matrix for safety requirements

Have all safety requirements been described and met?	
☐ Yes	☐ No

Ground risk mitigations

Mitigation	Level of robustness				Remarks (e.g. EASA design verification)	Reference to documentation		
						Document name	Page number	Chapter number
M1 Strategic mitigation for ground risk	☐ None	☐ Low	☐ Medium	☐ High				
M1 Tethered operation (fill in only if tethered operation)	☐ None	☐ Low	☐ Medium	☐ High				
M2 Effects of ground impact are reduced (e.g. parachute)	☐ None	☐ Low	☐ Medium	☐ High				
M3 An emergency response plan (ERP) is in place, the UAS operator is validated and effective	☐ None	☐ Low	☐ Medium	☐ High				

Strategic air risk mitigations

Mitigation	ARC reduction	Remarks (e.g. EASA design verification)	Reference to documentation		
			Document name	Page number	Chapter number
Air Risk Class mitigation	☐ ARC-d (AEC 1 or 2) ☐ ARC-c ☐ ARC-d (AEC 1 or 2) ☐ ARC-b ☐ ARC-d (AEC 3) ☐ ARC-c ☐ ARC-d (AEC 3) ☐ ARC-b ☐ ARC-c (AEC 4) ☐ ARC-b ☐ ARC-c (AEC 5) ☐ ARC-b ☐ ARC-c (AEC 6,7,8) ☐ ARC-b ☐ ARC-c (AEC 9) ☐ ARC-b				

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Tactical Mitigations Performance Requirements

	TMPR	Remarks (e.g. EASA design verification)	Reference to documentation		
			Document name	Page number	Chapter number
TMPR-level	☐ VLOS ☐ BVLOS ☐ No requirement (ARC-a) ☐ Low requirement (ARC-b) ☐ Medium requirement (ARC-c) ☐ High requirement (ARC-d)				
TMPR-function	Detect				
	Decide				
	Command				
	Execute				
	Feedback loop				
TMPR-robustness	TMPR integrity and assurance objectives				

Adjacent area/airspace considerations

	Level of containment	Remarks (e.g. EASA design verification)	Reference to documentation		
			Document name	Page number	Chapter number
Safety requirement	☐ Basic containment ☐ Enhanced containment				

Operational Safety Objectives

	Level of containment				Remarks (e.g. EASA design verification)	Reference to documentation		
						Document name	Page number	Chapter number
OSO #01 Ensure that the UAS operator is competent and/or proven	☐ Optional	☐ Low	☐ Medium	☐ High				
OSO #02 UAS manufactured by competent and/or proven entity	☐ Optional	☐ Low	☐ Medium	☐ High				
OSO #03 UAS maintained by competent and/or proven entity		☐ Low	☐ Medium	☐ High				
OSO #04 UAS developed to authority recognised design standards	☐ Optional	☐ Low	☐ Medium	☐ High				
OSO #05 UAS is designed considering system safety and reliability	☐ Optional	☐ Low	☐ Medium	☐ High				
OSO #06 C3 link characteristics are appropriate for the operation	☐ Optional	☐ Low	☐ Medium	☐ High				
OSO #07 Inspection of the UAS (product inspection) to ensure consistency with the Co-nOps		☐ Low	☐ Medium	☐ High				
OSO #08 Operational procedures are defined, validated and adhered to		☐ Low	☐ Medium	☐ High				
OSO #09 Remote crew trained and current and able to control the abnormal situation		☐ Low	☐ Medium	☐ High				

	Level of containment				Remarks (e.g. EASA design verification)	Reference to documentation		
						Document name	Page number	Chapter number
OSO #10 Safe recovery from a technical issue		☐ Low	☐ Medium	☐ High				
OSO #11 Procedures are in-place to handle the deterioration of external systems sup-porting UAS operations		☐ Low	☐ Medium	☐ High				
OSO #12 The UAS is designed to manage the de-terioration of external systems support-ing UAS operations		☐ Low	☐ Medium	☐ High				
OSO #13 External services supporting UAS opera-tions are adequate for the operation		☐ Low	☐ Medium	☐ High				
OSO #14 Operational procedures are defined, validated and adhered to		☐ Low	☐ Medium	☐ High				
OSO #15 Remote crew trained and current and able to control the abnormal situation		☐ Low	☐ Medium	☐ High				
OSO #16 Multi-crew coordination		☐ Low	☐ Medium	☐ High				
OSO #17 Remote crew is fit to operate		☐ Low	☐ Medium	☐ High				
OSO #18 Automatic protection of the flight enve-lope from human error	☐ Optional	☐ Low	☐ Medium	☐ High				
OSO #19 Safe recovery from human error	☐ Optional	☐ Low	☐ Medium	☐ High				

	Level of containment				Remarks (e.g. EASA design verification)	Reference to documentation		
						Document name	Page number	Chapter number
OSO #20 A human factors evaluation has been performed and the human machine interface (HMI) found appropriate for the mission	☐ Optional	☐ Low	☐ Medium	☐ High				
OSO #21 Operational procedures are defined, validated and adhered to		☐ Low	☐ Medium	☐ High				
OSO #22 The remote crew is trained to identify critical environmental conditions and to avoid them		☐ Low	☐ Medium	☐ High				
OSO #23 Environmental conditions for safe operations are defined, measurable and adhered to		☐ Low	☐ Medium	☐ High				
OSO #24 UAS is designed and qualified for adverse environmental conditions	☐ Optional	☐ Low	☐ Medium	☐ High				

Signature

Date	Place
Printed name	
Signature	