

UAS Safety & Risk Assessment

Assignment

Mission Description:

[Ditlevsdal Bison Farm](#) want to fly an [EbeeX](#) drone **BVLOS** to monitor their bisons. Help them complete their **SORA** assessment by going through the 10 steps of SORA. Try to **minimise the final SAIL** score to make the operation easier to perform.
Tip: *try to maximise the operational geography, not necessarily the whole farm.*

Step 1: Proposed Concept of Operations (ConOps)

What is the operation about? _____
Where are you operating? _____
Which UAS you intend to fly? _____

SORA Semantic Model:

Please include a map with the volumes of the SORA semantic model
(Flight Geography, Contingency, 1:1 ground risk buffer, 1km containment, Adjacent Area)

Placeholder for SORA Semantic Model Map

Step 2: intrinsic Ground Risk Class (iGRC)

What is the maximum iGRC population density? _____

What is the maximum speed of the UAS? _____

What is the maximum width of the UAS? _____

What is the iGRC? _____

Step 3: final Ground Risk Class (GRC)

Which mitigations are applicable to your case?

(please provide some supporting evidence if possible)

What is the final GRC? _____

Step 4: initial Air Risk Class (iARC)

Which ARC does the operation fall under?

Are there any NOTAMs or temporary no-fly zones?

Step 5: Strategic Mitigations

Are there any applicable strategic mitigations?

Step 6: Tactical Mitigations Performance Requirements

What is the TMPR level that is applicable to this application?

Step 7: Specific Assurance and Integrity Levels

What is the SAIL level of this operation? _____

Step 8: Containment Requirement

What is the size of your adjacent area? _____

What is the containment requirement of your operation? _____

Step 9: Operational Safety Objectives

What is the level of assurance and integrity needed for every OSO?

OSO #01: _____ OSO #02: _____ OSO #03: _____

OSO #04: _____ OSO #05: _____ OSO #06: _____

OSO #07: _____ OSO #08: _____ OSO #09: _____

OSO #13: _____ OSO #16: _____ OSO #17: _____

OSO #18: _____ OSO #19: _____ OSO #20: _____

OSO #23: _____ OSO #24: _____

Step 10: Comprehensive Safety Portfolio (CSP)

What should you include in the CSP?
