UAV Risk Assessment Form

Company name	Start Date	
Project reference	Finish Date	
Project description	Site location / Address	

Method Statement

We will use an Elios 3 UAV equipped with an Ouster LiDAR unit payload to fly and inspect the project stated above to create a complete 3D point cloud map of all sections designated as flyable. The first flight will be an exploratory flight to determine on-site hazards and total extent of radio signal for maximum safe flights. The following flights will then be used to map and inspect the project asset. The point cloud will have an accuracy of ~1.5 cm for specific point distance accuracy from the UAV and an overall mapping accuracy of +/- 1.8 cm when tied into existing stationing. The point cloud will include all visible geometry; rocks, supports, obstructions, irregularities, etc. Only agreed upon areas designated in the quote will be flown.

All flights will be performed using the onboard 4K camera and 16,000 lumen LED lighting to provide a video/picture inspection of any locations directed by the client. Any specific areas of interest during the inspection will be considered POI's. (Points of Interest) At those locations 4K photos will be taken. As each flight is 9 to 10 mins in temps above 0C, 120 VAC power will be needed on-site to continually recharge batteries. I have a total of 9 batteries and 5 chargers which is enough to continuously fly all day long as long as there is 120 VAC available.

Deliverables

We provide the final model as a Point Cloud in Autodesk ReCap format that is insertable into most Autodesk Products. The point cloud will contain the entire project asset flown, connected and registered together into a single file. The flight videos will also be included as .mov files for each flight as a separate file, along with any relevant .jpeg pictures taken at POI's. The POI's will be put together in a Word .doc report with flight number, headings, and XYZ coordinates, time stamps for video reference, along with a picture showing the 3D point cloud location for reference of where the picture was taken.



1 Task description

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water		· ·	·	(Twigs, rods, pipes, any elements that may fall)			
Yes/No	Yes/No	Yes/No	Yes/No		Yes/No		
		UAV		after incid			
			In case	e of incident, c	an the UAV be	e recovered?	Yes/No
				If left in place, can it damage the asset?			Yes/No
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Toxic	Harmful or	Corrosive	Biohazard	Oxidizing	Highly	Explosive	
	irritant	COTTOSIVE		9	Flammable	EXPIOSIVE	
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		Required F	Personal P	rotection E	quipment		
	000	Sie				Q.	Other:
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Safety boots	Safety gloves	High visibility	Hard hat	Eye	Ear	Overall	
				protection	protection		
Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	
		idual hazards	l	NI	First aid	facilities	
		be designated		Name of on-	site first	ı	
one for all personnel not involved in the operation			First aid box	location			
			Nearest hospital				
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		0 = .			Other essentia	al equipment	
Key plant tools & Equipment			(i.e. generator, power outlet, car ,etc.) 120 VAC is present for Battery charging purposes.				
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						of the flight and or Inspection F	



Name and signature of the person requesting the inspection.	
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2 Appendix

Put here any available Prints, drawing etc.



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