UAS ATTACHMENT A
SCDOT UAS MISSION LOG

Drone Mission Log
(SCDOT Use Only)

Section I: Inspection Information (Completed by BITL)

Asset ID:		Pilot-In-Command:		Team Leader:	
Inspection Date:		UAS Manufacturer:		Visual Observer:	
Inspection Time:		UAS Model:		Support:	

Section II: Inspection Scope and Planning (Completed by BITL)

Takeoff Location:	
Landing Location:	
Emergency Landing Location:	

Scope of UAS Operations: (Spans, Elements, Components being inspected by UAS Access)

Section III: Risk Assessment (Completed by PIC)

Complete the Risk Assessment by selecting an option for each of the following hazards. Once complete the form will determine if the planned UAS mission is within SCDOT's Parameters for SCDOT Pilots to perform.

4.2.1	Airspace category:	Select	4.1.3	Emergency landing area set:	Select
4.2.2	NOTAM (MOA) active:	Select	4.4.7	Population type:	Select
4.2.2	NOTAM (SFRA) active:	Select	4.4.4	Signs of flying animals:	Select
4.3.1	Cloud ceiling:	Select	4.4.6	Hanging vegetation in area:	Select
4.3.1	Visibility:	Select	4.4.5	Airport within 10 miles:	Select
4.3.2	Wind guest Speed:	Select	4.4.6	Towers/Guywires in area:	Select
4.3.3	Temperature:	Select	4.4.6	Powerlines/Guywires in area:	Select
4.3.4	Precipitation:	Select	4.1.4	Daytime operation:	Select
4.3.5	Kp index:	Select	4.4.2	Flying over people/vehicles:	Select
4.1.1	UAS flight type:	Select	4.4.1	Flying over water:	Select
4.1.2	Team Size (PIC &__):	Select	4.4.3	Flying over private property:	Select
4.1.2	PIC Experience:	Select			
4.1.2	PIC last flight:	Select			
4.1.2	PIC rest interval:	Select			

Push Button to run Risk Assessment

No Flight, Contact BMO before Proceeding

Section IV: Site-Specific Risks (Completed by the PIC)

In the sections below the PIC shall list any site-specific risks to the UAS operations that are not contained in Section III. A procedure shall be created that both mitigates the probability and severity of the risk.

Description of Site-Specific Risk	Procedure to Mitigate Risk's Probability and Severity

Note: No UAS flights can be performed when the risk assessment in Section 3 indicates "No Flight", or when Site-specific risks are identified that cannot be mitigated with an additional procedure developed by the PIC unless:

a) BMO has provided approval to proceed after the risk assessment in section III has returned "No Flight". (Attach approval)
b) The Site-Specific Risks identified in Section IV has been remedied or BMO has provided approval to proceed. (Attach approval)

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Section IV: UAS Preflight Checklist

The PIC should review and check off the following items as they are reviewed with the team, leaving only non-applicable items blank.

Documentation			**Flight Procedures**		
5.1.1	PIC certification		5.6.1	Airspace check before takeoff	
5.1.2	Airspace authorization		5.6.1	Check for takeoff encroachments	
5.1.3	UAS insurance & FAA registration		5.6.1	Arm UAS with team communication	
5.1.4	UAS manual & logbook		5.6.2	Takeoff UAS with team communication	
Team Checks			5.6.3	Perform UAS flight control checks	
5.2.1	Illness or medications		5.6.4	Monitor battery (Land by 22%)	
5.2.2	Stress, fatigue, or emotional states		5.6.6	Maintain UAS line of sight	
5.2.3	Alcohol		5.6.5	Monitor signal strength	
Emergency Procedures			5.6.2	Check landing area for encroachments	
5.3.1	Loss of signal to UAS		5.6.2	Land UAS with team communication	
5.3.2	Line of sight with UAS		5.6.1	Disarm UAS with team communication	
5.3.3	Collision with manned aircraft		5.6.1	Power down UAS and controller	
5.3.4	Collision with structure		5.6.4	Remove & inspect battery for damage	
5.3.5	Collision with pedestrian/vehicle		5.6.1	Recover & inspect UAS for damage	
5.3.6	PIC or VO become incapacitated		**UAS and Equipment Setup**		
5.3.7	Change in weather conditions		5.6.1	Takeoff/Landing zones for hazards	
5.3.7	Change in site conditions		5.5.1	Inspect UAS for Defects	
5.3.5	Pedestrian encroachment		5.5.2	Check SD card and install in UAS	
5.3.5	Vehicle encroachments		5.5.2	Inspect and install battery	
5.3.8	UAS/controller low battery		5.5.3	Firmware Updated on UAS and Radio	
Establish Communication Protocol			5.6.4	Battery levels above 90%	
5.4	Radio check (if used)		5.5.3	Calibrate UAS compass / IMG	
5.6.1	Arming/disarming announcements		5.6.1	Place UAS in takeoff area	
5.6.2	Takeoff/landing announcements		5.6.1	Power On UAS and Controller	
5.4.1	Flight plan deviation		5.6.5	Check Signal Strength UAS/Controller)	
5.3.5	Encroachment		5.5.3	Set Home Location for (RTH Function)	
5.4.2	UAS checkpoints / milestones		5.5.3	UAS Camera and Video settings	
5.3.5	Roadway/pedestrian/railway crossing		5.5.4	UAS specific proceedures	

Section V: UAS Flight and Data log

UAS Battery (%)		Spans / Elements / Components Inspected	Photo / Video / File Numbers
Starting	Ending		

Section VI: UAS Mission Closeout

5.6.7	Team debrief		3.6	Was there a FAA Reportable Incident	Select
5.5.2	Download UAS data to backup		3.6	Incident report attached to log	Select
5.6.7	Review data and complete flight log		5.6.7	UAS Maintenance Issue Identified	Select