Appendix F Risk Assessment Instructions and Forms

This worksheet provides a starting point to logically track the process of hazards and risks. It can be used to document risk management steps taken during the planning, preparation, execution of test missions and tasks.

All flyers must address the hazards listed in the attached risk assessment as a minimum. Operators may reference the Range Safety Questionnaire if appropriate.

1 and 3: Self-explanatory.

2. Date is the date the form is prepared.

4: Subtask relating to the mission or task in block1.

5: Hazards – Identify hazards by reviewing factors for the mission or task. Additional factors include historical lessons learned, experience, judgment, equipment characteristics and warnings, and environmental considerations. UAV Flyers must address all hazards listed in the attached forms, but are not limited to just these hazards. Those that are unique to that UAV must also be addressed.

6: Initial Risk Level– Includes historical lessons learned; intuitive analyses, experience, judgment, equipment characteristics and warnings; and environmental considerations. Determine initial risk for each hazard by applying risk assessment matrix on Page 6. Enter the risk level for each hazard-L, M, H, EH.

7: Controls – Develop one or more controls for each hazard that will either eliminate the hazard or reduce the risk (probability and/or severity) of a hazardous incident. Specify who, what, where, why, when, and how for each control. Enter controls. References to the range safety review questionnaire are appropriate.

8. How to Implement and Who will Implement: Example of how: SOP, Rehearsal, UAS Operating Instructions. Example of who: Supervisor, AVO, Mission Commander

9.: Residual Risk Level– Determine the residual risk for each hazard by applying the risk assessment matrix on Page 6-4). Enter the risk level for each hazard-L, M, H, EH.

10., 11., 12.: Self-explanatory.

13: Risk Assessment Review. Required when assessment applies to ongoing operations or activities.

See the following page for more instructions on completing your RA.

Instructions for Completing DD Form 2977	, "Deliberate Risk Assessment Worksheet"		
 Mission/Task Description: Briefly describe the overall Mission or Task for which the deliberate risk assessment is being conducted. 	 Overall Risk After Controls are Implemented: Assign an overall residual risk level. This is the highest residual risk level (from block 9). 		
2. Date DD/MM/YYYY: Self Explanatory.	11. Supervision Plan and Recommended Course of Action: Completed by preparer. Identify specific tasks and levels		
 Prepared By: Information provided by the individual conducting the deliberate risk assessment for the operation or training . Legend: UIC = Unit Identification Code; CIN = Course ID 	of responsibility for supervisory personnel and provide the decision authority with a recommend course of action for approval or disapproval based upon the overall risk assessment.		
Number; OPORD = operation order; DSN = defense switched network; COMM = commercial	12. Approval/Disapproval of Mission/Task: Risk approval authority approves or disapproves the mission or task based on the overall risk assessment, including controls, residual		
 Sub-task/Sub-Step of Mission/Task: Briefly describe all subtasks or substeps that warrant risk management. 	risk level, and supervision plan. Space provided for authority to provide additional guidance; use continuation page if needed.		
 Hazard: Specify hazards related to the subtask in block 4. 	13. Risk Assessment Review: Should be conducted on a regular basis. Reviewers should have sufficient oversight of the mission or activity and controls to provide valid input on abarese as adjustments peeded. If the residual kick rises		
 Initial Risk Level: Determine probability and severity. Using the risk assessment matrix (page 7), determine level of risk for each hazard specified, probability, severity and 	changes or adjustments needed. If the residual risk rises above the level already approved, operations should cease until the appropriate approval authority is contacted and approves continued operations.		
associated Risk Level; enter level into column.	14. Feedback and Lessons Learned: Provide specific input		
 Control: Enter risk mitigation resources/controls identified to abate or reduce risk relevant to the hazard identified in block 5. 	on the effectiveness of risk controls and their contribution to mission success or failure. Include recommendations for new or revised controls, practicable solutions, or alternate actions. Submit and brief valid lessons learned as necessary to persons affected.		
 How to Implement / Who Will Implement: Briefly describe the means of employment for each control (i.e., OPORD, briefing, rehearsal) and the name of the individual unit or office that has primary responsibility for control implementation. 	15. Additional Comments or Remarks: Preparer provides additional comments, remarks, or information to support the risk assessment. If block 15 is used as a continuation of block 14, strike through the block number and title.		
 Residual Risk Level: After controls are implemented, determine resulting probability, severity, and residual risk level. 	Additional Guidance: Block 4-9 continuance page may be reproduced as necessary for processing of all subtasks/ substeps of the mission/task. If a complete page is not utilized, write "NOTHING FOLLOWS" on the first unused row, immediately after the final item assessed.		

DELIBERATE RISK ASSESSMENT WORKSHEET

1. MISSION/TASK DESCRIPTION (INCLUDE DATES OF EVENT)				2. DATE (DD/MM/YYYY)		
3. PREPARED BY						
a. Name (Last, First, Midd	lle Initial)		b. Rank/Grade		c. Duty Title/Position	
	ine militaly		b. Naik/Grade			
d. Unit e. Work Email				f. Telephone (DSN/Commercial (Include Area Code))		
g. UIC/CIN (as required)		h. Training Supp	ort/Lesson Plan or OP	PORD (as required) i. Signature of Preparer		
Five steps of Risk Man	agement: (1) Identify the ha	azards (2)	Assess the hazards	s (3) Develor	p controls & make decisions	
	(4) Implement co		Supervise and eval		numbers not equal to numbered items o	n form)
4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARD	6. INITIAL RISK LEVEL	7. CON	TROL	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVEL
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	Addition	nal entries for it	ems 5 through 9 a	re provided on	page 2.	1
10. OVERALL RESID	UAL RISK LEVEL (All con	trols implemente	d):			
		-	MEDIU		M Low	
11. OVERALL SUPER	RVISION PLAN AND REC	OMMENDED C	OURSE OF ACTIO	N		
12. APPROVAL OR D	ISAPPROVAL OF MISSIC	ON OR TASK	APPROVE	DISAPPRO	VE	
a. Name (Last, First, Mi	ddle Initial) b.	Rank/Grade	c. Duty Title/Position	1	d. Signature of Approval Authority	
e. Additional Guidance:			L		l	

DELIBERATE RISK ASSESSMENT WORKSHEET						
4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARD	6. INITIAL RISK LEVEL	7. CONTROL	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT RISK LEVEL		
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DELIBERATE RISK ASSESSMENT WORKSHEET Probability (expected frequency) Occasional: Seldom: Unlikely: Likely: Frequent: **Risk Assessment Matrix** Continuous, Several or Sporadic or Infrequent Possible regular, or numerous intermittent occurrences but occurrences inevitable improbable occurrences occurrences occurrences Severity (expected consequence) в С D Е А Catastrophic: Death. unacceptable EH EH н н loss or damage, mission failure, М н or unit readiness eliminated Critical: Severe injury, illness, loss, EH or damage; significantly degraded ш н н Μ L unit readiness or mission capability Moderate: Minor injury, illness, loss, or damage; somewhat degraded ш н М М L L unit readiness or mission capability Negligible: Minimal injury, loss, or damage; little or no impact to IV М L L L L unit readiness or mission capability Legend: **EH** – extremely high risk **H** – high risk M – medium risk L – low risk 13. RISK ASSESSMENT REVIEW (Required when assessment applies to on going operation of activities) a. Date b. Last Name c. Rank/Grade d. Duty Title/Position e. Signature of Reviewer 14. FEEDBACK AND LESSONS LEARNED 15. ADDITIONAL COMMENTS OR REMARKS