INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ANNEX 1

NVIS COMPATIBLE LIGHTING SYSTEM MAINTENANCE INSPECTION CHECKLIST REV. IR XX/XX/XX

GENERAL

A. Objectives

- 1. Ensure aircraft cockpit, cabin, position lights are still NVG compatible after
 - a. STC holder specified inspection interval (ICA)
 - b. Maintenance to the aircraft instruments or cabin equipment that are NVG compatible.
 - c. Safety inspections (Company)

B. Overview

- 1. Three phases of evaluation
 - a. Daylight
 - 1) Ensure the pilot can read NVIS modified equipment in daylight and bright sunlight conditions
 - b. Night Unaided
 - 1) Unaided means viewing the instrument panel by looking underneath the NVG when they are in the operational position.
 - c. Night Aided
 - 1) Ability to see through the windscreen forward, right, and cross cockpit to the left/right.
- 2. Evaluators
 - a. NVG trained and qualified pilot
 - b. Maintainer or Maintenance QC/QA

I. REFERENCE DATA

Instructions:

1. Self-explanatory.

1. AIRCRAFT INFORMA	ATION		
MAKE	MODEL	S/N	REGISTRATION #

2. EVALUATOR(S) INFORMAT	ION	
NAME	COMPANY	TITLE

3. NVG(S) INFORMATION		
MANUFACTURER	MODEL	S/N

4. DRAWING INFORMATION (THE APPLICABLE FIGURES OF THE ICA APPENDIX SHOULD BE USED)					
ICA FIG #	REV	DATE	DESCRIPTION		

II. CONFORMITY EVALUATION

Instructions:

1. Evaluate the aircraft installation to ensure that it conforms to the figures of the applicable Appendix to the ICA. Note any non-conformities or deviations found so that appropriate action can be taken to either (a) update the installed configuration to reflect the Appendix of the ICA or (b) update the Appendix of the ICA to reflect the installed configuration.

1. INSTALLATION DRAWING CONFORMITY	PASS	FAIL
The installed equipment configuration of the NVIS lighting		
system of the aircraft conforms with the figures in the		
applicable Appendix of the ICA		
NOTES:		

III. UNAIDED DAYLIGHT READABILITY EVALUATION

Instructions:

- 1. Ensure that lighting conditions reflect a clear, sunny day with relatively low sun angles (worst case).
- 2. Windows/doors should represent the operational configuration and windscreens should be clean.
- 3. Power up aircraft using ground power.
- 4. Evaluate the aircraft installation according to the applicable section of the 'STC HOLDER' NVIS Compatible Lighting System Evaluation Checklist, initialing the appropriate boxes and noting any failures.

5. For each failure, if any, determine a possible corrective action and state whether reevaluation will be necessary once the failure is corrected.

recvaluation will be necessary office the failure is con-	ceteu.	
1. READABILITY EVALUATION	PASS	FAIL
Filtered displays and gauges are readable from both front		
seat positions with sunlight shining on display		
NOTES:		
3 ANVIC DED EVALUATION	DACC	FAU
2. NVIS RED EVALUATION	PASS	FAIL
Lights using NVIS Red are distinguishable as "red"		
compared to other lights on the instrument panel and are		
bright enough to capture pilot's attention with sunlight		
shining on display		
NOTES:		
3. NVIS YELLOW EVALUATION	PASS	FAIL
Lights using NVIS Yellow are distinguishable as		
"amber/yellow" compared to NVIS Red lamps and are		
bright enough to capture the pilot's attention with		
sunlight shining on display		
NOTES:		
4 11015000 1151 5111 1151001	5.466	
4. UNIFORMITY EVALUATION	PASS	FAIL
Colors are uniform across the cockpit (i.e. there are not		
different shades of green, yellow, amber, or red that		
could lead to confusion)		
NOTES:		

IV. UNAIDED NIGHT READABILITY EVALUATION

Instructions:

- 1. Ensure that lighting conditions reflect a cloudy, moon-less night with very low light levels.
- 2. Windows/doors should represent operation configuration and windscreens should be clean.
- 3. Power up aircraft using ground power.
- 4. Evaluator must be familiar with aircraft power and dimming switch locations so that they can be activated during darkened conditions.
- 5. Evaluate the aircraft installation according to the applicable section of the 'STC HOLDER' NVIS Compatible Lighting System Evaluation Checklist, initialing the appropriate boxes and noting any failures.
- 6. For each failure, if any, determine a possible corrective action and state whether reevaluation will be necessary once the failure is corrected.

PASS		FAIL		
NOTES:				
PASS	FAIL	N/A		

2. NVIS COMPATIBLE LIGHTING SWITCH	PASS	FAIL	N/A
If the NVIS compatible lighting is controlled through a			
different switch than the primary lighting, that switch is			
easily distinguishable from the primary lighting switch			
NOTES:			

3. NVIS COMPATIBLE LIGHTING ILLUMINATION	PASS	FAIL
NVIS compatible lighting illumination is balanced across		
all areas of the instrument panel		
NOTES:		

4. NVIS COMPATIBLE LIGHTING DESIGN	PASS		FAIL
NVIS compatible lighting design does not cause			
inadvertent action of controls			
NOTES:		•	
5. NVIS COMPATIBLE LIGHTING OVERLAYS	PASS	FAIL	N/A
If NVIS compatible lighting overlays are used, they do not			,
obscure instrument or gauge markings, symbols, or			
numbers from both front seating positions			
NOTES:			
110123.			
6. POST LIGHT ILLUMINATION EVALUATION	PASS	FAIL	N/A
Instruments and gauges illuminated with post lights are	FA33	IAIL	IN/ A
sufficiently illuminated so that the entire display is			
readable from both front seating positions and no			
distracting glare or reflections are present			
NOTES:			
		1	
7. WINDSCREEN/WINDOW GLARE/REFLECTIONS	PASS		FAIL
If the NVIS compatible lighting system is different than			
the primary lighting system, it does not cause more glare			
or reflections in the windscreen and windows of the			
cockpit than the primary lighting system			
NOTES:			
8. MAP/EMERGENCY/FLOOD LIGHT EVALUATION	PASS		FAIL
Map/emergency/flood lights do not shine into the pilot's			

eyes or cause reflections off instrument or gauge displays that shine into the pilot's eyes and do not cast shadows on portions of the instrument panel that obscure readability NOTES:		
9. NVIS RED EVALUATION	PASS	FAIL
Lights using NVIS Red are distinguishable as "red" compared to other lights on the instrument panel and are bright enough to capture pilot's attention		
NOTES:		
10. NIVIC VELLOVA EVALUATION	DACC	FAII
10. NVIS YELLOW EVALUATION Lights using NVIS Yellow are distinguishable as	PASS	FAIL
"amber/yellow" compared to NVIS Red lamps and are		
bright enough to capture the pilot's attention		
NOTES:		
11 LINUFORMITY EVALUATION	DACC	FAII
11. UNIFORMITY EVALUATION Colors are uniform across the cockpit (i.e. there are not	PASS	FAIL
different shades of green, yellow, amber, or red that		
could lead to confusion)		
NOTES:		
12 DICDLAY DEFAULT DOLCHTRIEGG	DACC	FAII
12. DISPLAY DEFAULT BRIGHTNESS	PASS	FAIL
Displays that do not have filter overlays have default brightness (failure mode brightness) levels that do not		
interfere with pilot's ability to operate aircraft		
interiore with phot 3 ability to operate all trait		

NOTES:			

V. NVG AIDED NIGHT READABILITY EVALUATION

Instructions:

WARNING!

ONLY ACTIVATE NVGS UNDER NO-LIGHT CONDITIONS TO PREVENT DAMAGE TO PHOTOTUBES

- 1. Ensure that lighting conditions reflect a no-light environment.
- Verify NVGs are functioning properly and have no defects that would affect evaluation results.
- 3. Windows/doors should represent the operational configuration and windscreens should be clean.
- 4. Power up aircraft using ground power.
- 5. Evaluator must be familiar with aircraft power and dimming switch locations so that they can be activated during darkened conditions.
- Evaluate the aircraft installation according to the applicable section of the NVIS
 Compatible Lighting System Evaluation Checklist, initialing the appropriate boxes
 and noting any failures.
- **7.** For each failure, if any, determine a possible corrective action and state whether reevaluation will be necessary once the failure is corrected.

1. NVIS COMPATIBLE LIGHTING SYSTEM NIGHT EVALUATION									
NVIS INSTRUMENTS	NVIS AVIONICS	MAP / EMER / FLOOD LIGHTS	AFT COMPARTMENT LIGHTS	CAUTION/ WARNING LIGHTS	IR LEAKS PRESENT?	UNACCEPTABLE REFLECTIONS PRESENT?			
OFF	OFF	ON	OFF	OFF					
ON	OFF	OFF	OFF	OFF					
ON	ON	OFF	OFF	OFF					
ON	ON	ON	OFF	OFF					
ON	ON	ON	ON	OFF					
ON	ON	ON	ON	ON					
NOTES:									

2. DISPLAY DEFAULT BRIGHTNESS	PASS	FAIL
Displays that do not have filter overlays have default		

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brightness (failure mode brightness) levels that d cause "blooming" in the NVGs	lo not						
NOTES:							
1101231							
VI. OVERALL EVALUATION RESULTS							
<u>Instructions:</u>							
 Self-explanatory. 							
·							
The aircraft PASSES the overall evaluation							
		individual port	tions of the				
The aircraft FAILS the overall evaluation due to failed individual portions of the evaluation that will require reevaluation upon completion of required corrective							
·	por compi	etion of require	ed corrective				
actions (C/A).							
VII. CERTIFICATION	VII. CERTIFICATION						
Instructions:							
 Self-explanatory. 	 Self-explanatory. 						
I hereby certify that the evaluation above was co	mpleted to	the best of my	ability and				
the results are accurate to the best of my knowle		-	-				
the results are accurate to the sest of my knowledger							
EVALUATOR SIGNATURE	DATE						
EVALUATOR SIGNATURE	DATE						