



APPLICATION FOR HUD/EVS OPERATIONAL APPROVAL

SECTION I : OPERATOR

1. Applicant Details	
Operator Name	AOC No:
Address, mailing address	
E-mail address and contact telephone/fax	
2. Aircraft Details - required for all Approval requests Airplane type(s), series and registration mark(s).	
Airplane Type	
Airplane Series	
Registration	
Formal approval will normally be subject to a flight and simulator observation	
3. Documents to be included with the application (refer to section IV)	
SECTION III SIGNATURE BLOCK	
Name (BLOCK LETTERS)	
Appointment	
Signature	
Date	



SECTION IV APPLICANT'S EVS SUBMISSIONS MATRIX			
Main Heading	Expanded areas to be addressed by application	Sub-requirement	Operator's Operations Manual Reference or Document Reference
1. Reference Documents used in compiling submission			
2. Aircraft Flight Manual (AFM)			
3. Feedback and reporting of significant problems			
4. Approach plate supplier and Operating Min			
5. Operations Manual entries and Standard Operating Procedures	<p>Manufacturer/operator developed.</p> <p>Manufacturer's procedures recommended as starting point and must include at least the following</p>	<p>Definitions.</p> <p>Check that crew are qualified for EVS/HUD operations</p> <p>MEL handling</p> <p>Equipment required for EVS operations.</p> <p>Types of approach where EVS can be used.</p> <p>Statement that</p>	



		<p>autopilot/flight director should be used whenever possible.</p> <p>Minimum visual references for landing Approach Ban and RVR.</p> <p>Stabilized Approach Criteria.</p> <p>Correct seating and eye position.</p> <p>Crew co-ordination, e.g. duties of PF and PNF:</p> <ul style="list-style-type: none">• designation of handling and non-handling pilots;• use of automatic flight control system;• checklist handling;• approach briefing;• radio communications <p>Operations Manual entries and Standard Operating Procedures (contain handling;</p> <ul style="list-style-type: none">• monitoring and	
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		<p>cross-checking of instruments and radio aids; and</p> <ul style="list-style-type: none"> • use of the repeater display by PNF <p>Contingency procedures including:</p> <ul style="list-style-type: none"> • failures above and below decision height; • ILS deviation warnings; • autopilot disconnect; • auto-throttle disconnect; • electrical failures; • engine failure; • failures and loss of visual references at or below decision height; and • EVS/HUDLS failure below normal decision height 	
<p>Type of Operation</p>	<p>Training Required</p>	<p>Training Means</p>	<p>Operator's Operations Manual Reference or Document Reference</p>



<p>Ground school training</p>	<p>Syllabus should follow this guidelines -HUD Initial Ground Training</p> <p>HUD Initial Line Indoctrination - HUD Flight Training - Visual Take-offs, Circuits, Approaches and Landings - Instrument Approaches</p> <p>- HUD initial pilot proficiency check</p> <ul style="list-style-type: none"> • Engine failure on take-off and departure; • Instrument approach and missed approach with OEI; and • Failure of HUD during instrument approach 	<p>HUD/EVS theory. Interpretation of images.</p> <p>Display characteristics.</p> <p>Calibration checks.</p> <p>Visual anomalies.</p> <p>Eye and seat position. Weather/fog characteristics. Low visibility operations. Crew</p> <p>Briefings / callouts.</p> <p>Duties of PF/PNF and CRM.</p> <p>Actions at DA and 100 ft. AGL.</p> <p>Transition from EVS imagery to non-EVS visual.</p> <p>Use of clear switch. Recognition of malfunctions.</p> <p>AFM performance and obstacle clearance on Go-around.</p> <p>Use of auto-flight systems and</p>	
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		<p>minimum engage height.</p> <p>AFM limitations and system failures.</p>	
<p>Flight simulator and line training</p>	<p>Syllabus should follow guidelines :</p> <p>- HUD Initial SIM. Training</p> <p>- Non-Normal/Emergency Operations include the following:</p> <ul style="list-style-type: none"> • Unusual Attitudes; • Wind shear escape • EGPWS escape, • TCAS RA, • HUD failure on take-off in reduced visibility and on approaches <p>HUD initial line indoctrination:</p> <p>-Pilots should accomplish at least five manually flown HUD assisted takeoffs</p> <p>- five HUD approaches to authorized minima while in VMC conditions</p> <p>- Each approach should terminate in a manually</p>	<p>Simulator training syllabus.</p> <p>Line flying under supervision.</p> <p>Recurrent training</p>	



	<p>controlled HUD assisted landing or HUD assisted go-around.</p> <p>- completion of these requirements, the HUD qualified pilot should then be qualified to conduct HUD takeoffs and approaches to the authorized minima as set forth in the air operator's operations specifications.</p> <p>HUD RECURRENT TRAINING AND CHECKING REQUIREMENTS</p> <p>Recurrent training should include the following</p> <ul style="list-style-type: none">• Takeoff, at the lowest authorized visibility, engine failure before and after V1 with crosswind;• Approach and landing, at the lowest authorized visibility, with crosswind;• Approach, at the lowest authorized visibility, with crosswind, with missed approach;• Non-precision approach(s), including circling (if applicable);		
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	<ul style="list-style-type: none">Selected abnormal/emergency maneuvers. This should include approach and landing with OEI. <p>Selected HUD related ground training subjects should be reviewed on a recurrent basis</p> <p>HUD currency requirements</p> <p>-Operator 90-day takeoff, approach and landing currency requirements apply</p> <p>A- PF should have completed at least three takeoffs, approaches and landings using the HUD, in airplane or a BCAA approved level C (or higher) full flight simulator , within the previous 90 days before acting as PF using the HUD,</p>		
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Any Further Comments to Support Your Application:			
BCAA USE			
Recommendations:	<input type="checkbox"/> Approved	<input type="checkbox"/> Not Approved	
Remarks:-			
FOI name	Signature	Date	
CAO Name	Signature	Date	
Recommendation	<input type="checkbox"/> Approved	<input type="checkbox"/> Not Approved	
Remarks:-			



Recommendation	<input type="checkbox"/> Approved	<input type="checkbox"/> Not Approved
Remarks:-		
DAL Name	Signature	Date