



Minimum Equipment List

Minimum Equipment List revised?

2.3

	Application for steep approach approval									
Subm	Submit application to: CROATIAN CIVIL AVIATION AGENCY Flight Operations and Training Department Ulica grada Vukovara 284, 10000 Zagreb									
	APPLICANT'S INFORMATION									
	Applica	ant's na	me							
	Applica	nt's add	ress							
App	licant's ide	entificati	on number							
		(OIB)								
Applic	ant's cont	act (Pho	one , E-mail)							
			API	PLICANT'S	LEGAL RE	PRESENTATIVE	INFO	RMATIONS		
	Name and surame									
	Address ¹									
Perso	Personal identification number (OIB)									
Contact (Phone, E-mail)			-mail)							
Completion of form: Each relevant box should be comp				e completed		(X). Fo	orm must be completed by referring to a document of er and sub-chapter. Please ensure all applicable areas			
1. GEI	NERAL									
Genera	I Information									
Aeroplai	Aeroplane Registration Aeroplane Type Model Designati					Aero	Aeroplane Manufacturer			
	2. AIRWORTHINESS									
	ty Airworthin			hand				To be completed by applicant		
2.1	•		steep approach is					<u>-</u>		
	☐ AFM ☐ AFM Supplement			☐ Type ce	ertification	☐ Supplemental ☐ Other (speci Type Certificate		Other (specify):		
2.2 Maximum approved glideslope angle as per item 2.1:										

The applicant should revise parts of Minimum Equipment List to reflect system requirements (e.g. configuration,

airbrakes, flaps, TAWS override procedure) appropriate to the intended steep approach operations?

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YES

NO

To be completed by applicant





3. OPERATION

Operat	ing Practices and Procedures	To be completed by applicant			
	plicant must institute steep approach Operating Practices and	Steep approach Operating Practices and Procedures are described in			
	ures. These practices and procedures should cover the following	(list manual reference, chapter and sub-chapter):			
subject					
3.1	Operational Control and Supervision CAT.POL.A.245(2)(iii)(E) CAT.POL.A.345(2)(iii)(E) (OM-A 2.3) The operator shall establish a control loop to verify that at least the Commander assigned to the flight is trained and proficient to conduct the intended steep approach. This verification shall be done in the planning phase in the context of operational control and supervision CAT.POL.A.245(2) CAT.POL.A.345(2) (OM-A 2.3) Any Steep Approach limitations shall be considered in the planning, when operation into an aerodrome with Steep Approach is intended. This feasibility-check shall be done in the context of operational control and Supervision.				
3.2	General description of Steep Approach CAT.POL.A.245 CAT.POL.A.345 (OM-A 8) General definitions and characteristics shall be described in the Chapter 8. The description shall mention the definition of a steep approach (an approach with a glide slope angle of 4,5° or more is considered a Steep Approach) The required type of vertical path reference and runway guidance used for the steep approach, must be mentioned. The difference in screen height (less than 50ft but not less than 35ft) and the resulting operational consequences have to be mentioned. (OM-B 0.) Steep Approach with its maximum approach angle shall be mentioned in the list of operations specifications.				
3.3	Limitations CAT.POL.A.245(2)(iii)(F) CAT.POL.A.345(2)(iii)(F) (OM-B 1.1) If there is a maximum landing mass, other than the maximum landing mass for normal approach angle, it must be listed. The maximum tailwind allowed for Steep Approach must be mentioned. The maximum x-wind allowed for Steep Approach must be mentioned. The maximum approach angle the aeroplane is certified for and the operator is authorised to conduct, must be mentioned. Required automation and its minimum use heights (EXAMPLE: A/P and A/T might be used down to 200ft AAL etc.). CAT.POL.A.245(2)(iii)(D) CAT.POL.A.345(2)(iii)(D) (OM-B 1.1) All technical limitations must be mentioned. For example: Powerplant limitations (EXAMPLE: OEI, FADEC, minimum N1 etc), required navigation equipment, required configuration (EXAMPLE: Flaps, slats, airbrake etc). Aerodrome/runway limitations must be listed (e.g. max slope, max aerodrome elevation, minimum runway width etc).				

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	Normal Procedures	
	CAT.POL.A.245(2)(iii)(F)	
	CAT.POL.A.345(2)(iii)(F)	
	(OM-B 2)	
	All normal procedures shall be consistently described including	
	flight profile and crew station duty assignments. The	
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	procedures and manipulations may vary from normal approach	
	procedures. The OM-B Chapter 2 shall contain the description	
	of these procedures and manipulations.	
	- If the briefing for a steep approach is different to the	
	conventional approach, the differences shall be described in	
	this chapter	
	- Describe if specific tasks have to be completed before the	
	approach (e.g. arming of steep approach mode, verification of	
	serviceability of equipment etc)	
3.4	- The description must include configurations, speeds, call-	
	outs, tasks in relation to the flight/approach progress. If the	
	operator decides to implement additional call-outs for steep	
	approach(e.g. speed call- out during short final), it shall be	
	, , , , , , , , , , , , , , , , , , , ,	
	defined in this chapter	
	- The procedures shall also describe techniques used for the	
	attitude change during flare following a Steep Approach	
	- The use of automatics during the approach and maybe	
	landing, shall be described	
	- If a different speed schedule for the Steep Approach is	
	required, it shall be described, how the crewmember obtains	
	these figures	
	- If the landing configuration for a Steep Approach is different	
	to a normal approach, a detailed description must be available	
	- The missed approach procedure must be described in detail	
	(including configuration, speed, call-out, flight modes etc).	
	Abnormal Procedures	
	CAT.POL.A.245(2)(iii)(F)	
	CAT.POL.A.345(2)(iii)(F)	
	(OM-B 3)	
	All abnormal procedures concerning Steep Approach must be	
	described.	
	The description shall contain procedures to be applied in case	
0.5		
3.5	of failures during Steep Approach (EXAMPLE: OEI, configuration	
	failures etc).	
	If not defined as procedures by the manufacturer, the operator	
	can describe additional, more restrictive contingency	
	procedures in this chapter (EXAMPLE:. The manufacturer	
	allows to conduct Steep Approach with FADEC inop. The	
	operator requires to conduct a G/A for a FADEC fault during	
	approach, due to the difficult engine handling during Approach)	
	Performance	
	CAT.POL.A.245(2)(iii)(F)	
	CAT.POL.A.345(2)(iii)(F)	
	(OM-B 4)	
	Due to the Steep Approach angle and the reduced screen	
	height, a different speed schedule might be certified by the	
	aeroplane manufacturer. This might result in a different	
	calculation or increment for the landing distance (LD) and	
3.6	consequently for the determination of landing distance required	
	(LDR)	
	The manufacturer provided documents will give information to	
	this topic. The operator must ensure to implement this	
	information in the OM-B Chapter 4. The information shall be	
	presented in a way that the crew members can easily calculate	
	the required performance data for landing.	
	If there is a different calculation method, or if different figures	
	are used, the operator must proof the correct application.	
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	Special attention must be given to calculations with electronic	
	applications or calculation programs from external suppliers	
	(e.g. EFB applications)	
	In case of a landing distance (LD) penalty due to overspeed, the	
	crewmember must have an easy-to-use method to determine	
	the resulting penalty (e.g. 7% increase of LD per 2kts speed	
	increment)	
	If for Steep Approach a special landing configuration is used,	
	the configuration change and missed approach configuration	
	may be different than on a normal approach and therefore	
	considered in the approach climb calculation, provided by the	
	manufacturer.	
	Mass and Balance	
	CAT.POL.A.245(2)(iii)(F)	
	CAT.POL.A.345(2)(iii)(F)	
	(OM-B 6)	
	If the aeroplane has a landing mass limitation other than the	
3.7	maximum landing mass for normal approaches, it must be	
	considered for the calculation of the load sheet.	
	Special attention to this has to be given, if the load sheet is	
	calculated electronically (e.g. EFB application). Exceedance of a	
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	landing mass limitation must be excluded / indicated.	
	Minimum Equipment List	
	CAT.POL.A.245(2)(iii)(D)	
	CAT.POL.A.345(2)(iii)(D)	
3.8	(OM-B 9)	
0.0	The MEL must be revised with all considerations concerning	
	the required equipment for Steep Approach.	
	If the operator decides to implement additional items required	
	for Steep Approach, they must be listed in the MEL.	
	Aerodrome Instruction and Information	
	CAT.POL.A.245(2)	
	CAT.POL.A.345(2)	
	(OM-C 1)	
	All aerodromes shall be categorised in order to allow flight crew	
	competence qualification.	
	The categorisation gives the operational control and the	
	crewmember concerned the information about the required	
	qualification in order to operate into a specific aerodrome.	
	Aerodromes with special limitations (performance, operating	
	procedures) must be explicitly published in the OM C. Also	
	special considerations, additional information, aerodrome	
	special issues defined by the operator (e.g. tips and hints) shall	
3.9	be published in the OM C.	
	Following items shall be taken into consideration for each	
	aerodrome at which Steep Approach operations are to be	
	conducted:	
	- a suitable glide path reference system comprising at	
	least a visual glide path indicating system shall be	
	available,	
	- the obstacle situation,	
	- the type of glide path reference and runway guidance,	
	- the minimum visual reference to be required at decision	
	height (DH) and MDA,	
	- pilot qualification and special aerodrome familiarisation,	
1	 missed approach criteria 	
1	- weather minima	



Flight C	rew Training and Qualification	To be completed by applicant			
The applicant is required to establish the following (covering subjects under 3.1 to 3.9):		To be completed by applicant Description in (list manual reference, chapter and subcha	ipter):		
3.10	Flight crew qualification requirements CAT.POL.A.245(2)(iii)(E) CAT.POL.A.345(2)(iii)(E) (OM-A 5)				
3.11 4. API	Flight Crew Training CAT.POL.A.245(2)(iii)(E) CAT.POL.A.345(2)(iii)(E) (OM-D 2.1) Description of initial and recurrent training, checking-and training-syllabi. Steep Approach shall be trained at least for the CMD. This training shall be conducted in a simulator and documented in the personal file. It is the operators responsibility to adhere to the training requirements for every single aerodrome where he intends to operate to. CCAA will only issue an approval for the Steep Approach procedure. The validity period for the route and aerodrome qualification must be observed It is the operators responsibility to observe this period of validity. The initial and recurrent training must be based on the Operator's Procedures laid down in the respective OM B. The training must emphasis on proper distribution of the flight crew station workload management, duties, responsibilities and appropriate call-outs during Steep Approach, flare, roll-out and GA / missed approach. Special emphasis shall be laid on critical phases such as flare, transition from non-visual to visual conditions and on procedures in deteriorating visibility, the handling of failures as well as detection of / response on pilot's incapacitation.				
	entation to be submitted to the CCAA		Su	bmitte	d?
			Yes	No	N/A
4.1	Compliance statement which shows how the criteria of CAT.POL. (Section 5. of this application)	A.245 and/or CAT.POL.A.345 have been satisfied.			
4.2	Sections of the AFM or AFM Supplements that document steep a	pproach airworthiness approval			
4.3	Flight crew steep approach training programmes and syllabi for in	•			
4.4	Operation manual and checklists that include steep approach ope	rating practices and procedures.			
4.5	Minimum Equipment List (MEL) that include items pertinent to ste	ep approach operations			
4.6	Maintenance program or revision thereof that include items pertin	ent to steep approach equipment			
4.7	Steep approach maintenance practices & procedures (CAME, mai				
4.8	Service Bulletin, Supplemental Type Certificate (STC) or Major Modification Approval Documentation, if approval based on				



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The undersigned certifies the above information to be correct and true and that aeroplane system installation, continuing airworthiness of systems, minimum equipment for dispatch, operating procedures and flight crew training comply with applicable requirements of EC 965/2012.							
Name of Post Holder Continuing Airworthiness: Signature: Date:							
Name of Post Holder Flight Operations:	Signature:	Date:					
Name of Post Holder Training:	Signature:	Date:					
Date:							

6. FOR OFFICIAL USE ONLY

Applicant's name, surname & signature:

	Subject		Respons	ible	Date	Signature
6.1	FOD-FRM-012 and item 4 application pac	kage checked for completeness. OPS				
6.2	Airworthiness Approval granted (Appendix	to Certificate of Airworthiness).	AWI			
6.3	Operational Approval granted (applicant's training programs have been found in com		OPS			
6.4	Steep approach approval process administ Exchange of Certificates).	tratively completed (OPS Update, and OPS		S		
Withdrawal of steep approach Approval Reason:						
Name:		Date:		Signatu	ıre:	

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