



EASA
European Aviation Safety Agency

AWO project |

WS1: Air Operations and Flight Crew Training,
Weather information to pilots

Andrew McKechnie
11 November 2016

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TE.GEN.00409-001



WS1: Air Operations

- **Review of Proposed Implementing Rules**
 - Part-ARO
 - Part-CAT
 - Part-SPA
 - Part-NCC
- **Implementation Issues**
 - For Operators
 - For Authorities
- **Operational Credits**



Review of proposed Implementing Rules:

- **Part-ARO:**
 - Align Operations Specifications with ICAO Annex 6 Appendix 6

Specific approvals:	Yes	No	Specification ⁹	Remarks
Dangerous goods	<input type="checkbox"/>	<input type="checkbox"/>		
Low-visibility operations			CAT ¹⁰	
Take-off	<input type="checkbox"/>	<input type="checkbox"/>	RVR ¹¹ : m	
Approach and landing	<input type="checkbox"/>	<input type="checkbox"/>	DA/H: ft, RVR: m	
Operational credits	<input type="checkbox"/>	<input type="checkbox"/>	DA/H: ft, RVR: m	
RVSM ¹² N/A	<input type="checkbox"/>	<input type="checkbox"/>		

Current draft

Special limitations ⁸ :				
SPECIAL AUTHORIZATIONS	YES	NO	SPECIFIC APPROVALS ⁹	
Dangerous goods	<input type="checkbox"/>	<input type="checkbox"/>		
Low visibility operations				
Approach and landing	<input type="checkbox"/>	<input type="checkbox"/>	CAT ¹⁰ : _____ RVR: _____ m DH: _____ ft	
Take-off	<input type="checkbox"/>	<input type="checkbox"/>	RVR ¹¹ : _____ m	
Operational credit(s)	<input type="checkbox"/>	<input type="checkbox"/>	¹²	
RVSM ¹³ <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>		
ETD ¹⁴ <input type="checkbox"/> N/A	<input type="checkbox"/>	<input type="checkbox"/>	Threshold time ¹⁵ : _____ minutes	

Annex 6



Review of proposed Implementing Rules:

- **Part-CAT**

- **CAT.OP.MPA.115 Approach Flight Technique:**

- Review provision for CA to approve other-than stabilised approach operation (SAp) or continuous descent final approach (CDFA).

- **CAT.OP.MPA.310 Threshold crossing height**

- Review whether requirement should be for Type 'B' approaches or 3D approaches [*ICAO Ax 6 4.2.9*]



Review of proposed Implementing Rules:

- **Part-SPA**

- **SPA.LVO.100 Proportionate requirements for G.A.**

- Requirement for approval for take off in <400m RVR onerous for NCO
 - May also create burden for Competent Authorities;

- **SPA.LVO.105 Certification**

- Not all LVO approvals require certified aircraft/equipment (e.g. LVTO);
 - Does this need to be in IR?

- **SPA.LVO.110 Instrument approach procedure design**

- Operational assessment required for deviations from PANS-OPS. What about TERPs?

- Need to clarify meaning of '*significantly deviate*' in AMC.



Review of proposed Implementing Rules:

- **Part-NCC**

- Confusion between Decision Altitude/Decision Height (DA/H) (global issue)
- NCC.OP.111 confusion between decision height (DH) and minimum descent height (MDH) in determination of minima.

2D approach flown CDFA should require DH

2D approach flown with VNAV guidance can be considered 3D
[*“computer-generated navigation data from ground-based, space-based, self-contained navigation aids or a combination of these”*]
(need to review definitions)



Implementation Issues (for Operators):

- **AMC1 SPA.LVO.105 Eligible Aerodromes (CAT III)**
Requirement for each runway/aircraft combination to be verified onerous for operators, attempts to pool data have had limited success.
Is this still necessary for current equipment?
Review the need with certification experts.
- **LVO Approval requirement for NCO**
not proportionate to risk (especially for LVTO);
- **Training requirements not appropriate for NCO;**
- **Consider alleviations to certification requirements for NCO to**
 1. Encourage innovation
 2. Reflect reality (e.g. use of iPad, SVS, enhanced vision etc.);
- **GA needs safety promotion, not more regulation**



Implementation Issues (for Competent Authorities):

- **Format of approvals:**
Consider adopting 'Ops Spec Lite' from Annex 6 part II.
- **Need for AMC/GM to ARO.OP.200**
procedures for approval and oversight of SPA.
- **Also AMC/GM on qualification and training of Inspectors**
for approval/oversight of LVO using Performance-Based Regulations (especially operational credits)
- EASA to consider making training courses available.



Operational Credits

- **LTS CAT I:**
ILS class for >450m RVR should be I/T/2 (not I/T/1)
- **SA CAT I:**
Align with FAA to maximum possible extent (especially important for NCC);
Contact FAA for latest information;
Specific procedure design not required, only OCH for RA to be added;
Training to be proportionate;
- **OTS CAT II / SA CAT II:**
Aim for a single OC aligned with FAA;
Anomaly between table 2 and 3 in AMC4 SPA.LVO.100 (DH 141-199);
Minima should be consistent with 'downgraded equipment table (AMC7 SPA.LVO.100) considering different exposure.



Operational Credits

- **EFVS / CVS**

Review all definitions against ICAO latest standards;

Consider allowing operational credit for 2D operations;

Should be no requirement for Radio Altimeter;

‘Approach Ban’ should align with actual RVR required at DH;

What credit should be allowed in flight planning for use of destination and/or alternate (Fuel policy RMT);

‘credit’ allowed for RVR should depend on specific technology employed;



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➤ FCL.605 IR — Privileges

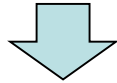
[...]

(b) Privileges for decision heights lower than 200 ft (60 m),

➤ Personnel providing training – Subpart J & K

➤ SPA.LVO.120 (d): [...] competent to conduct the intended operations qualified in accordance with Annex I (Part-FCL) to Regulation (EU) No 1178/2011.

➤ Action: Ensure trainers are knowledgeable in the operator's SOP.



➤ Guidance to ORO.GEN.205: further guidance between ATO and AOC.



➤ Introduction to 3 Groups of AMCs for training:

Proposal:

1 – Training requirement baseline – based on SPA.LVO.120

2 - Competency based training organisations

➤ Approach clustering – RMT0599 Competency and Evidence base training - Workshop 01.02.2017

3 - Alternative training means

➤ Concept paper 1Q2017 RMT0599 – Workshop 01.02.2017



➤ Group 1 of AMCs



➤ Existing approach of SPA.LVO.120

▶ Action: improve text whenever possible

➤ New operations credit

➤ Same structured as ORO.FC

➤ AMC1 initial training -ORO.FC.220

➤ AMC 2 recurrent training and checking – ORO.FC.230

➤ AMC 3 difference training – ORO.FC.240

➤ AMC 4 command – ORO.FC.205

❑ Proportionate training requirements for NCO



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END



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