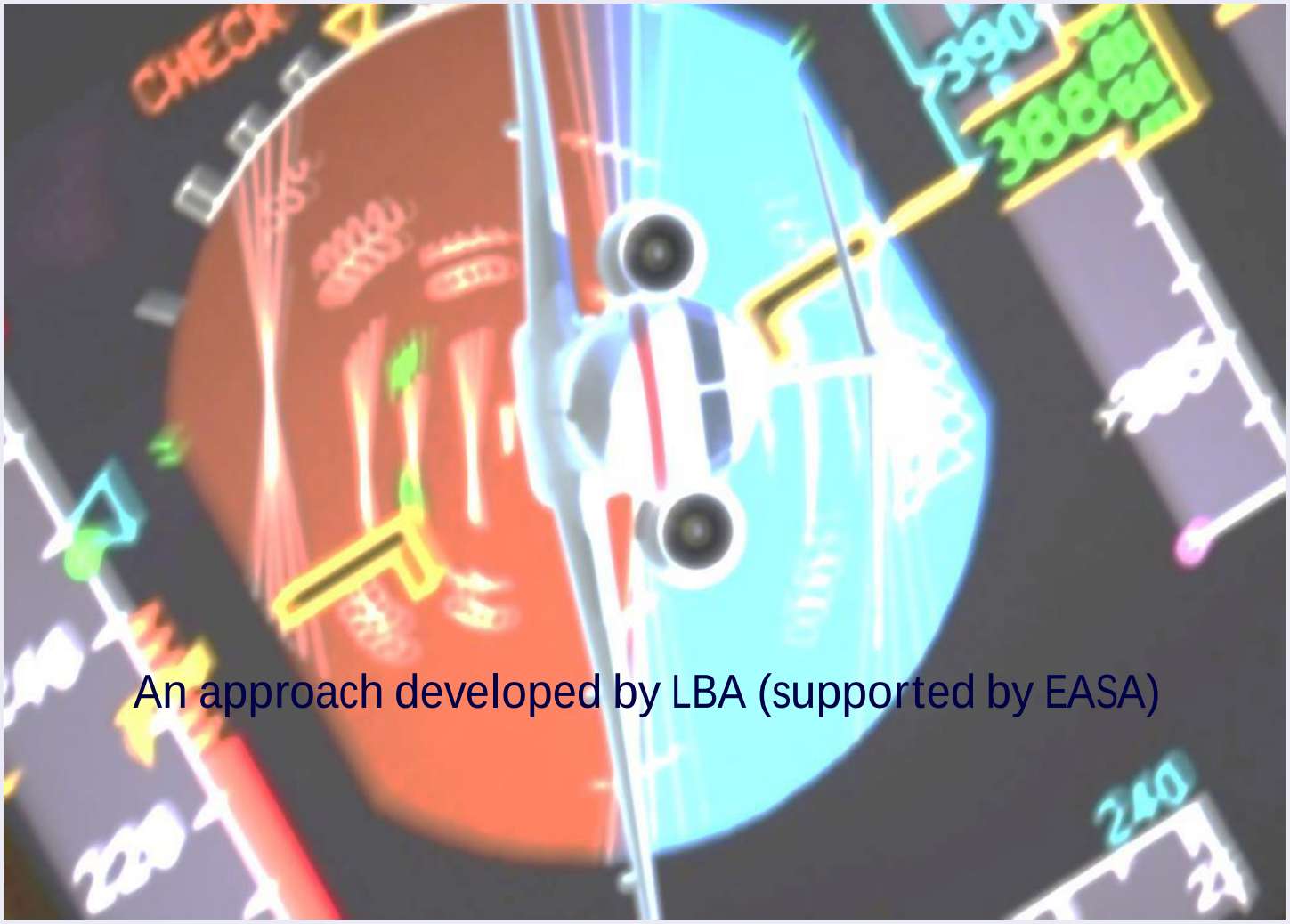
FSTD Evaluation/Qualification of UPRT acc. to CS-FSTD(A) Issue 2



General Action Items

General Action Items

Best Practices

Evaluation of FSTDs

- 05/2018: • CS-FSTD(A) Issue 2 becomes effective (distribution of electronic/paper version to all TIs and FIs)
- 07/2018: • Organization of an „UPRT“ – Workshop
- 08/2018: • Generating a Matrix including the fundamental changes regarding CS-FSTD(A) Issue 2
- 09/2018: • Establishment of a "UPRT-Task-Force“
- 10/2018: • UPRT – Workshop (Part 1): Groundschool for all TIs and all affected FIs (FFS (A))
- 11 + 12/2018: • Creating the necessary documentation (Manuals, C/L, Tutorials)
- 01 + 02/2019: • UPRT – Workshop (Part 2): Hands-On Session in a FSTD
  • Familiarization with Manuals, C/L and Tutorials
- 03/2019: • 1st Initial Qualification acc. to CS-FSTD(A) Issue 2

UPRT - Workshop

General Action Items

Best Practices

Evaluation of FSTDs

Workshop is seperated into a theoretical and a practical part

Theoretical Part

- CS-FSTD(A) Issue 2 requirements regarding UPRT (IOS Feedback Tool, Upset Scenarios, aerodynamic model, engine and airframe icing)
- Thorough background on UPRT and how it should be taught
- Refresher on academics (V-n Diagram & Alpha-beta diagram) and correlation with regulatory requirements

Practical Part

- Concept and regulatory requirements will be demonstrated in a FSTD (hands-on experience)

IDT
International Development of Technology

CS-FSTD(A) Issue 2 Matrix

General Action Items

Best Practices

Evaluation of FSTDs

- Identification of new provisions and requirements and clustering them in 4 different topics (Full Stall Training, IOS Feedback Tool & UPRT, Stall @high Altitudes, Eng & Airframe Icing)
- classification of requirements (subjectiv and functional, objectiv)
- Defining the applicabillity (FFS Level C, FFS Level D, etc.)

Referenz	anwendbar für					Full Stall Training	IOS Feedback Tool & UPRT Training	Eng & Airframe Icing	Stall @ high Altitudes	Requirement			Weitere Bezüge
	FFS Level B	FFS Level C	FFS Level D	FNPT II	FNPT II MCC					Text	objektiv	subjektiv	
Appendix 1 to CS FSTD(A).300 Flight Simulation Training Device Standards													
1.d.3		x	x	x	x			x		Instrumente müssen entsprechend Vereisung anzeigen		x	
1.g.2		x	x			x				Für Lfz. mit Stick Pusher müssen Kräfte Ruderausschläge und Ruderstellung mit dem Original übereinstimmen	x SoC &Test		
1.h.2		x	x				x			Real-time Feedback Tool um dem Instructor zu zeigen, ob sich Lfz innerhalb der Operating Limits bewegt Aufzeichnung kann ist aber kein MUSS	x SoC	x	AMC12 FSTD(A).300

Manuals, C/L and Tutorials 1/2

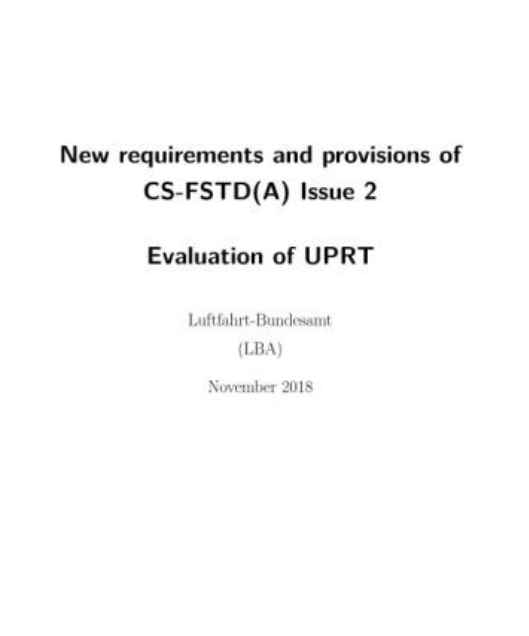
General Action Items

Best Practices

Evaluation of FSTDs

Resulting from the Matrix ➔ Manual

„New requirements and provisions of CS-FSTSD(A) Issue 2 – Evaluation of UPRT“


New requirements and provisions of CS-FSTD(A) Issue 2

Evaluation of UPRT

Luftfahrt-Bundesamt
(LBA)

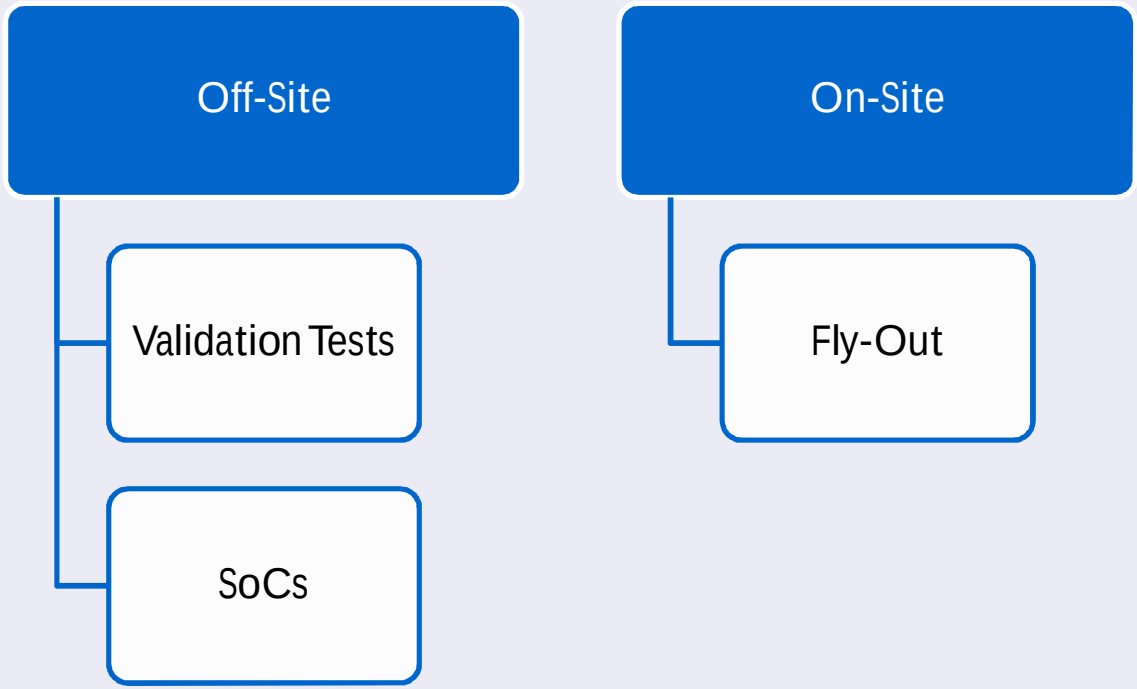
November 2018

Content:

- General Information on UPRT
- Summary of the changes sorted by the different topics
- Compilation of all check items grouped by subjective + functional tests, validation tests and SoC
- still to include: „Previuously qualified FSTD“ (AMC11) and „Impact of FAA Part 60“ (bounced ldgs. and gusty crosswinds)

Manuals, C/L and Tutorials 2/2

Implementation of 2 Checklists ➔ „Off-Site“ and „On-Site“



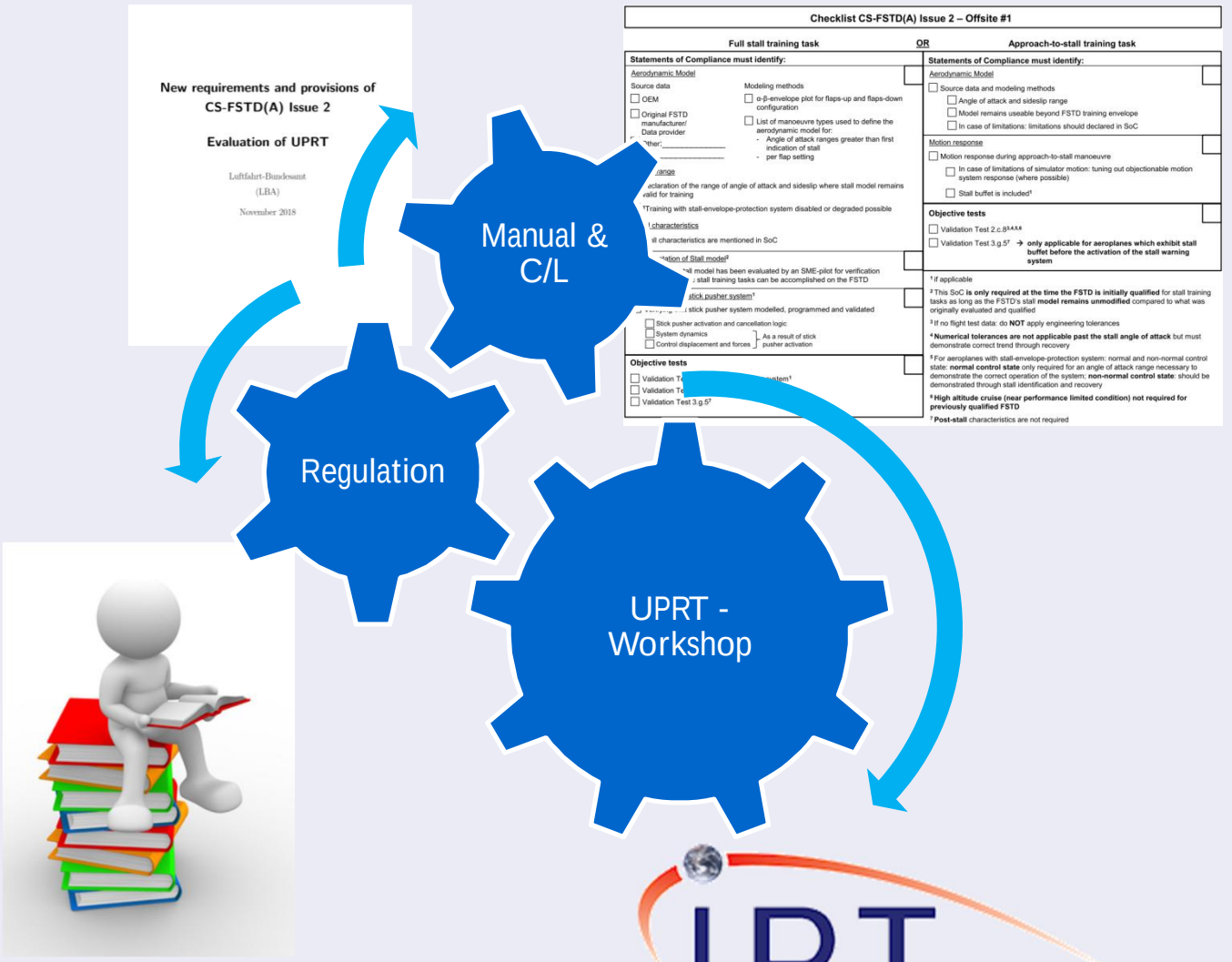
Tutorial relevant for UPRT provisions ➔ „Aerodynamic Tutorial/Crash-Course“

Conclusion ➔ Best Practices for a good Preperation

General Action Items

Best Practices

Evaluation of FSTDs



IDT

International Development of Technology

Evaluation of previously qualified FSTDs

Special Evaluation after Major Change:

1. Retrieve necessary information from FSTD Operator
2. Review and evaluate (Off-Site Checklist)
3. On-Site Evaluation (On-Site Checklist)

Beare in mind…

GM4 ORO.FC.220&230 Operator conversion training and checking & recurrent training and checking

ED Decision 2018/006/R

Article 2

This Decision shall enter into force on the day following that of its publication in the Official Publication of EASA.

It shall apply from the applicability date of the related Commission Regulation[7] (which has been prepared based on EASA Opinion No 06/2017) that introduces new requirements on loss of control prevention and recovery training (UPRT) into Commission Regulation (EU) No 1178/2011. Upon applicability, it shall also apply to FSTDs used for UPRT as per Commission Regulation (EU) No 965/2012.

associated FSTD validation tests.

FSTD operators may achieve such demonstration of equivalency through the conduct of a special evaluation by the competent authority. Once the level B FFS is deemed to be qualified, the competent authority should enter the additional capability on the certificate using the wording 'upset recovery training'. FSTD Operators are reminded that the individual FFS used must be approved for the training by the competent authority in accordance with ORO.FC.145(c).

Equivalency to at least level C for the specific features needed for the training task may be demonstrated using the following guidance and list in Table 1 of minimum objective and subjective functional test.

General

- Refer to Subpart C Aeroplane Flight Simulation Training Devices AMC1 FSTD(A).300(c)(1)(i) and (2)(ii) for the scope of the qualification criteria;
- A six-degrees-of-freedom motion system should be provided; and

GM4 ORO.FC.220&230 will be superseded as soon as CS-FSTD(A) Issue becomes applicable

No more UPRT related training allowed on FFS Level B!


QUESTIONS
COMMENTS
CONCERNS
PROBLEMS
COMPLAINTS