

EASA Rules from Regulator side

Switzerland

15.6.2017, Peter Tschümperlin



Agenda

- 1. Introduction
- 2. EASA Aerodromes Transition Project ARFF
- 3. Audit ARFF
- 4. Key Points
- 5. Questions

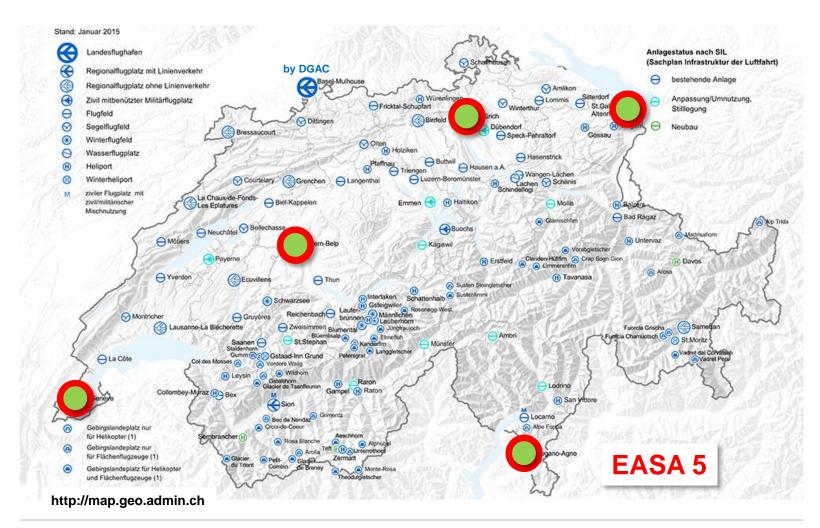


Introduction





Aerodrome Certification





EASA Aerodromes Transition Project ARFF

Swiss civil aviation safety is regulated by regulations and directives of the EU, the EASA and Eurocontrol, as well as ICAO SARPS and Swiss legislation

- ICAO Annexes and Manuals directly applicable
- EU / EASA regulations and directives (directly applicable after adoption by the Joint Committee into the appendix to the bilateral agreement on air transport between Switzerland and the EU)
- Eurocontrol regulations directly applicable
- Swiss legislation





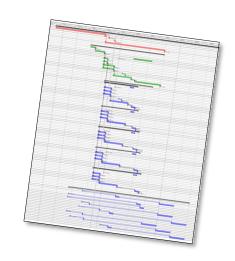






Timing

Aerodrome	Conversion	
Geneva	20.12.2016	
Lugano	21.12.2016	
Altenrhein	May 2017	
Zürich	July 2017	
Bern	October 2017	



- End of transition period (31.12.2017)
- Parallel ICAO (re)certifications for 8 aerodromes



EASA Certificate

- Unlimited duration with max. oversight cycle 4 years
- Terms of certificate attached
- Separate national (ICAO)
 certificate for subjects
 not (yet) regulated
 by EASA (e.g. heliports)





Audit EASA



EASA Regulation RFF CTIF Prague / Peter Tschümperlin FOCA, 15.6.2017



Audit ARFF - Focus

Aerodrome Emergency Planning

Audit 1 h - check of documents

- Emergency Plan
- Coordination of appropriate organisations
- Intervention aerodrome located close to water
- Emergency in difficult environment (swampy areas)
- Assessment of approach and departure areas within 1000 m of the runway thereshold
- Fence and gate
- Response time
- Emergency exercises (full-scale and partial)

LSGG are asking for an AltMOC (Alternative Means of Compliance) for emergency exercises to increase the interval



Audit ARFF – Focus (1/2)

Rescue and Firefighting

What FOCA are doing during the year:

- Check of Response time
- Check of Emergency Exercises

Audit 1 h – check of documents

- Number of staff, vehicles, extinguishing agents (Task Resource Analysis)
- Training (Program) basic and live drills
- Check of responsibilities (Instructors Assessors)
- Verification competence of staff
- Medical and Fitness
- Reserve of complementary agent (foam and powder)



Audit ARFF – Focus (2/2)

Rescue and Firefighting

- Inventory of rescue material
- Response time max 3 minutes with intervention layout
- Low visibility process
- Training in human performance including team coordination
- Task Resource Analysis



Audit ARFF - Focus

Disabled Aircraft Removal

Audit 1 h - check of documents

- Responsibility of COO (chief of aerodrome)
- Plan for the removal of an aircraft with checklist
- Model contract (removal contract)
- Equipment and personnel
- Responsibility of the pilot / aircraft owner
- Training



Zurich Airport



Category 10

- Main station: 2 vehicles
- Nord station: 2 vehicles
- Tarmac: 1 vehicle
- Min 11 firefighters
- Schutz und Rettung Zurich (professional)

2016

- 236'000 Movement
- 26.6 Mio Pax

- Emergency plan on website airport
- Opertations manual ARFF with training details
- Assessment 1000 m in task resource analysis



Zurich Airport







Zurich Airport

	Stadt Zürich Schutz & Rettu	ng	Verantwortlich Formular	Jan Bauke 1385 / 0354700	
		BF_N_Ei Ber	gungsvertrag D	eutsch	
Geltui	ngsbereich:	BFN, FZAG-SMS			
Ziel: Regelt die Veran Zürich			wortlichkeiten bei Flugzeugbergungen auf dem Flughafen		
-	zwischen	nd Rettung (SRZ), Züric			
nd _	arion, ochatz a	na Rettaily (SRZ), Zunc	"		
uftrag	geber:	*			
/ertrete	n durch:		************************************	***************************************	
1.			ag, das Luftfahrzeug (Unfallstelle) befir	welches sich zurzeit in ndet, zu bergen.	
2.		et sich, die für die Bergun onal zur Verfügung zu stel		üstung sowie ausgebildetes	
3.	SRZ führt die Bergung in Übereinstimmung mit ihrem Standard-Verfahren auf Kosten und Gefahr des Auftraggebers durch. Die Kosten bestehen namentlich aus: a. Personalkosten b. Benutzung der Spezialausrüstung c. weitere Kosten im Zusammenhang mit der Bergung				
4.	Der Auftraggeber verpflichtet sich, SRZ alle Daten, Dokumente und Informationen zu liefern, welche für die Bergung erforderlich sind.				
5.	SRZ führt die Bergung nach der Freigabe des verunfallten Luftfahrzeuges durch die Schweizerische Unfalluntersuchungsstelle (SUST) durch.				
6.	Das oben erwähnte Luftfahrzeug wird nach der Bergung dem Auftraggeber auf dessen alleinige Gefal zur Verfügung gestellt.				
7.	Jegliche Haftung von SRZ, ihrer Angestellten, Hilfspersonen und Subunternehmen für Schäden bzw. für Forderungen, welche in Zusammenhang mit der Erfüllung dieses Vertrages entstehen bzw. geltend gemacht werden, wird weg bedungen. Der Auftraggeber stellt SRZ, ihre Angestellten, Hilfspersonen und Subunternehmen von allen Ansprüchen und Kosten freit, welche von Dritten im Zusammenhang mit der Erfüllung dieses Vertrages gegen sie geltend gemacht werden.				
8.	Dieser Vertrag	untersteht schweizerische	em Recht. Der Gerichtssta	nd ist Zürich.	
Ort, Datum			Stadt Zürich, Schutz & Rettung, Zürich		
Ort. Datum		Auftranneher	Auftraggeber		





Geneva Airport



Category 9

- Main station: 3 vehicles
- Min 9 firefighters
- During 23h30-06h00
 Cat 7 7 firefightes

2016

- 148'000 Movement
- 16.4 Mio Pax

- New emergency plan including proximity of the airport
- Responsibility between city and airport fire brigade
- Assessment 1000 m (areas of France) in task resource analysis



Geneva Airport



Manuel du Plan d'urgence de Genève Aéroport



Alarme, intervention et gestion de crise

Edition 8.0 Janvier 2017







Geneva Airport





Altenrhein Airport



Category 2

- 2 firefighters
- Category 3-6 for scheduled traffic
 3-7 firefighters
- Main station: 2 vehicles

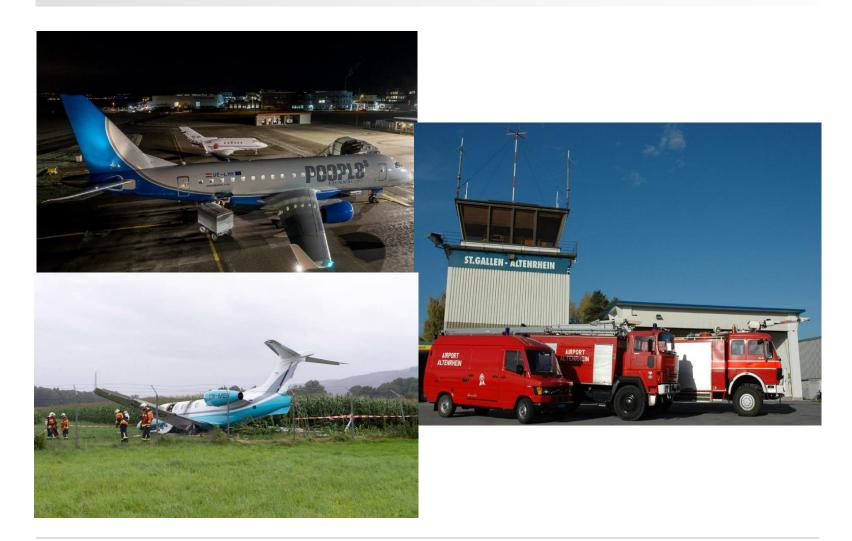
2016

- 2'100 Movement
- 99'000 Pax

- Infrastructure / vehicles
- Training in Vienna
- Emergency Exercises



Altenrhein Airport





Lugano Airport



Category 4

- 5 firefighters
- Category 6 for scheduled traffic7 firefighters
- Main station: 2 vehicles

2016

- 5'200 Movement
- 167'700 Pax

- Infrastructure Lake
- Training
- Emergency Exercises



Lugano Airport

Lugano Airport

PIANO DI EMERGENZA

Versione 2.0 01.01.2017







Bern Airport



Category 4

- 5 firefighters
- Category 6 for scheduled traffic
 - 7 firefighters
- Main station: 2 vehicles

2016

- 7'700 Movement
- 167'300 Pax

- Home base of states airplanes
- Training
- Infrastructure / Vehicles



Bern Airport













Mandatory personnel – Dircetive FOCA

At the airports personnel must be properly trained and Rescue and Fire Fighting staff must be available during all aviation operations. The minimal mandatory number of personnel is defined as follows:

•	Category	1
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Category 2

Category 3

Category 4

Category 5

Category 6

Category 7

Category 8

Category 9

Category 10

1 Person

2 Persons

3 Persons

according task resource analysis



- Documents and processing unit
- Training
- Task Resource Analysis
- Level of Protection
- Number of RFFS vehicles
- Extinguishing agents
- Response time
- Personnel
- Communication (Pilot, TWR)



Open items

- Approval AltMOC interval emergency exercises (LSGG)
- Response time interpretation of second and third vehicle (LSZH)

for example:

- Cat 10 / 3 vehicles (32'300 lt / level B)
- One vehicle with 12'500 lt water, discharge 11'200 lt/min)
- First vehicle 1 min 38 sec
- Second 2 min 40 sec and third vehicle 2 min 50 sec
- Any vehicle, other then the first responding vehicle(s), required to achieve continuous agent application of the amount of extinguishing agents specified in Table 1 of AMC4 ADR.OPS.B.010 arrives no more than one minute after the first responding vehicle(s)



Questions

