Search & Rescue SAR Strateriand



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- Organization SAR
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- Flightplan / ELT Handling
- Activities with Topic SAR



Organization SAR / National

ARCC > Aviation Rescue Coordination Center

Contracting States shall, individually or in cooperation with other States, arrange for the establishment and prompt provision of search and rescue services within their territories to ensure that assistance is rendered to persons in distress. Such services shall be provided on a 24hour basis. ICAO Annex 12/2.1

Since 1.1.2021 operated by Swiss Air Force



Daniel Zolliker, der Leiter des Rescue Coordination Center, überwacht die Alarmzentrale in Dübendorf an mehreren Bildschirmen. © VBS/DDPS, Sina Gunter



Organization SAR / National

ARCC Duties

Initiating and Coordination of the Search & Rescue for:

- Aircraft which Emergency Beacon (ELT) has been triggered
- Aircraft which are overdue (INCERFA)
- Aircraft which neither carry an ELT nor filed an ATC Flightplan but are missed (e.g. Glider)
- Personal Emergency Beacon (PLB) (no obligation by law to search)



Contact ARCC GEN 3.6 - 1 AIP SWITZERLAND 04 JAN 2018 GEN 3.6 SEARCH AND RESCUE 1. Responsible service The SAR service is under the responsibility of FOCA. The execution of SAR is delegated to the KAPO ZH (RCC) and the Swiss Air Force (search FLTs). It can call on the following resources for assistance, as needed: Air force units: • the Swiss Air Ambulance (REGA): . Civil aviation companies; . Canton police forces: Swiss alnino club roscuo toame

SEARCH AND RESCUE CO-ORDINATION CENTRE (RCC) SAR Centre Zurich								
Postal address	TEL H24	FAX	Telex AFTN	Notes				
Schweizer Luftwaffe / Swiss Air Force RCC / Op Zen LW Flugplatz Dübendorf / OZD CH-8600 Dübendorf Switzerland	+41 (0) 58 484 10 00	+41 (0) 58 484 20 05	LSARYCYX	Email: rcc.lw@vtg.admin.ch				

Supervising authority: Federal Department of Environment, Transport, Energy and Communications (DETEC) Name and location of Rescue SubCentre: NIL



Flight Plans SERA.4001 Submission of a flight plan

b) A flight plan **shall** be submitted prior to operating:

(3) **any flight within or into areas**, or along routes **designated** by the competent authority, to **facilitate** the **provision of flight information**, alerting and search and **rescue** services;



Flight Plans SERA.4001 Submission of a flight plan

[...] For other VFR flights, **significant changes** to a flight plan **shall be reported as soon as practicable to the appropriate air traffic services unit**.

EET = "estimated elapsed (flight) time" for VFR-Flights:

the expected required time between the takeoff and the arrival overhead the destination aerodrome;



Flight Plans SERA.4015 Changes to a flight plan

- a) [...] For other VFR flights, **significant changes** to a flight plan shall be reported as soon as practicable to the appropriate air traffic services unit.
- b) Information submitted <u>prior</u> to departure regarding fuel endurance or total number of persons carried on board, if incorrect at time of departure, constitutes a significant change to the flight plan and as such shall be reported.



Flight Plans SERA.4020 Closing a flight plan

- a) An arrival report shall be **made in person**, by radiotelephony, via data link or by other means as prescribed by the competent authority **at the earliest possible moment <u>after</u> landing**, to the appropriate air traffic services unit at the arrival aerodrome, by any flight for which a flight plan has been submitted covering the entire flight or the remaining portion of a flight to the destination aerodrome.
- -> Close my flightplan
- -> Divertion!! The original FPL remains open No FPL to Alternates

Lack of DEP triggers the Flight plans to become active at EOBT



Flight Plans SERA.4020 Closing a flight plan

(e) Arrival reports made by aircraft **shall** contain the following elements of information:

(1) aircraft identification;

- (2) departure aerodrome or operating site;
- (3) destination aerodrome or operating site
- (only in the case of a diversionary landing); *
- (4) arrival aerodrome or operating site;
- (5) time of arrival.

"* Diverting on Flight Plan from LSxx ; please close my flight plan after landing"



Section 10 SERA.10001 Alerting Service

b) Unless otherwise prescribed by the competent authority, aircraft equipped with suitable two-way radio-communications shall report during the period 20 to 40 minutes following the time of the last contact, whatever the purpose of such contact, merely to indicate that the flight is progressing according to plan, such report to comprise identification of the aircraft and the words 'Operations normal'.

c) The 'Operations normal' message shall be transmitted air-ground to an appropriate ATS unit.



ATS and SAR INCERFA

Uncertainty Phase (INCERFA)

Alarmstufe 1 - INCERFA (Ungewissheitsstufe)

Sobald die letzte Meldung oder die Landung eines Flugzeuges länger als eine halbe Stunde überfällig ist, wird Alarmstufe 1 - INCERFA (Ungewissheitsstufe) - eingeleitet. Aufgrund des Flugplans wird versucht, Informationen über den Verbleib des Luftfahrzeuges zu erhalten. In mehr als 90% der Fälle wird das abgängige Flugzeug schon aufgrund von telefonischen Nachforschungen gefunden.

- Alarmstufe 2 ALERFA (Bereitschaftsstufe)
- Alarmstufe 3 DETRESFA (Notstufe)

EOBT / Takeoff & EET & 30 Min = Alarm EET can be **extended** by informing ATC (ACC or FIC)





«Swiss SAR Alerts» App

😲 FO	CA		0	FOCA	0	👽 FOCA		
Flight Plar	filed			Flight Plan filed		Flight Plan filed		
Remind m	e in:			Reminder: 2/12/2	0, 11:51 PM	Remind me in:		
				Please note:		2		
	0	50 0		Notify delays and changes of		3	50 0	
	1 hour	10 min		Cancel your flight plan when your flight.	n you cancel	5 hours	10 min	
	2	20		Always close your flight plan	n after landing by call	6	20	
	3	30		(below) or via Skybriefing. E controlled airports during A LSGC, LSGG, LSZG, LSZL, I	TC HRS: LSZB, LSZC,	7	30	
				LSZH and LSZS.		Flight landed in:		
					Swi	Switzerland		
						A	ustria	
					F	rance		
					Ge	ermany		
Close Flight Plan		Close Flight Plan	Italy, Milano					
						Ital	y, Roma	
	Unlock	"Call SAR"		Unlock "Cal	I SAR"	c	ancel	

Android

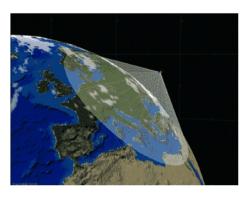








ELT Handling



- **No Tests** with 406 MHz ELT's; GEOSAR takes signals immediately
- Monitoring 121,5 MHz
- Report false alerts to
 ARCC Zürich Tel. 058 484 10 00

