

ENR 1.3 INSTRUMENT FLIGHT RULES

1. Procedures for RVSM flights

Where an ACFT's **altitude reporting system displayed level (Transponder mode C/S ADS_B)** differs from the reported FL by 200 ft or more, the controller shall inform the pilot accordingly and the pilot shall be requested to check the pressure setting and confirm the ACFT's level.

2. Special procedures for IFR flights (Z and Y) within FIR Switzerland (LSAS)

2.1 Departures

Flight plans are to be submitted in accordance to FPL REF: [ENR 1.10.1.3.2](#)

When a Z FLT commences from a Swiss AD with a joining point within FIR Switzerland, this FLT shall be notified immediately before TKOF by TEL to:

- ACC Zurich (for FLTs joining within the CTA Zurich),
TEL +41 (0) 43 931 69 65, or to
- ACC Geneva (for FLTs joining within the CTA Geneva),
TEL +41 (0) 22 747 13 91.

The above mentioned services transmit a transponder code which shall be operated at TKOF, as well as the FREQ to call for ATC clearance.

Due to regulation measures, a TKOF slot allocation for Z-flights is possible, the adherence to a received TKOF slot (CTOT) is compulsory. The responsibility lays with the Pilot in command.

Joining-clearance may be denied or delayed by ATC for flights which are not pre-announced by TEL or not respecting their TKOF slot (CTOT). Ref to: [ENR 1.9.4](#). (AIR TRAFFIC FLOW MANAGEMENT AND AIRSPACE MANAGEMENT Chapter 4)

ATC clearances will be given by TEL only in exceptional cases.

For local procedures, contact the relevant AD authority.

2.2 Procedures for FLTs from and to ADs of Ticino

All Z and Y FLTs plans with origin/DEST Ticino AD shall also be additionally addressed to LSZAZTZX.

2.2.1 Departures

DEPs will be co-ordinated with Lugano TWR by the DEP AD TWR/AAU (Airspace Allocation Unit). After DEP pilots shall PCD under VFR to LUGAN and hold, maintaining visual ground contact, until Lugano TWR issues the IFR clearance.

2.2.1.1 Flights with destination north of Milano TMA

If MET conditions permit, such FLTs shall climb under VFR north of CANNE.

After TKOF pilots shall contact Zurich Flight Information or Zurich Control respectively for IFR clearance before entering airspace class D or C. South of CANNE, they shall remain within Milano TMA, class E.

If the weather conditions do not permit the above mentioned procedure, the procedure detailed in [ENR 1.3.2.2.1](#) is applicable.

2.2.1.2 Departures at night

TKOFs shall be co-ordinated between the respective AD TWR/AAU and Lugano TWR.

2.2.1.3 Arrivals

Point of reference "Y" in the flight plan shall be the PINIK INT.

After having CNL IFR, the pilot shall PCD to the DEST AD via route Mezzo or W - Luino.

If continuation of the FLT under VFR is not possible, Lugano will issue an APCH clearance to permit the ACFT to land at Lugano AP.

3. Clearance to fly maintaining own separation in VMC (VMC climb/descent)

When so requested by an ACFT, a controlled FLT operating in VMC may be cleared to climb or descend, subject to maintaining its own separation from other ACFT and remaining in VMC, provided the following conditions are fulfilled:

- a. the VMC climb/descent clearance may be delivered O/R only if the FLT crew of the other ACFT agrees to the use of the procedure;
- b. the VMC climb/descent clearance may be delivered during the HR of daylight only;
- c. essential traffic information will be given by ATC to the ACFT concerned.

4. Expected Approach Time (EAT)

An EAT is transmitted to an ACFT only O/R of the pilot, or if it is likely that the delay will be 10 MIN or more. The EAT will only be revised if the transmitted time is likely to change by more than 5 MIN.

5. Radio communication failure during IFR flights

Arriving ACFT whose DEST point is located in Switzerland shall PCD in accordance with the instructions contained in the STAR charts, in the AD 2.24 section.

Departing ACFT under pilot's NAV shall PCD in accordance with the instructions contained in the SID charts, in the AD 2.24 section.

Departing ACFT being vectored by radar away from the route specified in its current FLT plan shall PCD in the most direct manner to the route specified in the current FLT plan.

6. Reduced reporting procedures

Radiotelephony procedures employed by pilots of IFR FLTs within Swiss area of jurisdiction:

- a. The initial call after a change of radio FREQ will only contain ACFT IDENT and actual FL, indicating the cleared FL for ACFT in climb or descent;
- b. Any PSN report, if required subsequently, will only contain ACFT IDENT, PSN and time over;
- c. If assigned a speed requirement, the FLT crew shall report this in the initial call.

7. Rate of climb/descent

Should a pilot for any reason not be able to comply with the ROC/ROD cleared by ATC, he shall inform the controller immediately.

Depending on the phase of FLT, the procedures specified below are applicable to all ACFT whose PER data allows these procedures to be met:

- level changes ENR:
during descent, a rate of between 1000-2500 ft/min is expected and should be complied with (except within the last 1000 ft to the cleared FL, the rate should not exceed 1000 ft/min) and similarly, ACFT CMB the cleared FL, the ROC within the last 1000 ft should not exceed 1000 ft/min either;
- level changes in HLDG patterns:
a ROD of 1000 ft/min or less is expected and should be complied with;
- descent on STAR's:
a rate of between 1500-2500 ft/min is expected and should be complied with;
- LVE IAF under radar vectors:
unless otherwise specified by ATC, the ROD is at pilot's discretion.
- any DEV from the above mentioned rates, if deemed necessary by the pilot, shall be communicated to ATC immediately.

8. RNAV procedures

8.1 RNAV 5 procedures

RNAV 5 (B-RNAV) routes are designed in accordance with the EUROCONTROL B-RNAV criteria. However, in accordance with the ICAO Doc 9613 Performance-based Navigation (PBN) Manual, these routes are published within the Swiss Airspace in compliance with the RNAV 5 requirements.

In AIP Switzerland, the terms "RNAV 5" and "B-RNAV" have the same meaning.

RNAV equipment may use the input from one or a combination of the following types of position sensors:

VOR/DME, DME/DME, INS/IRS and GNSS. However, the availability of VOR/DME is not assured in Swiss airspace. Request radar vectoring in case of RNAV position unavailability.

8.2 RNAV 1 procedures

RNAV 1 (P-RNAV) procedures are designed in accordance with the ICAO Doc 8168 PANS-OPS RNAV 1 criteria.

In AIP Switzerland, the terms "RNAV 1" and "P-RNAV" have the same meaning.

8.3 RNAV Routes

ACFT, other than State ACFT, operating on ATS routes* within FIR/UIR Switzerland at and above FL 100 shall be equipped with, as a MNM, RNAV equipment meeting RNAV 5 (B-RNAV) in accordance with the requirements set out in ICAO Doc 7030 Regional Supplementary Procedures (EUR, chapter 4, 4.1.1.2.3).

Aircraft operators shall ensure that the navigation equipment fulfils the requirements of the flight-planned routing.

* An ATS route is defined in ICAO Annex 11 as follows:

A specified route designated for channelling the flow of traffic as necessary for the provision of ATS.

The term "ATS route" is used to mean variously AWY, advisory route, controlled or uncontrolled route, ARR or DEP route, etc.

8.3.1 Fixed RNAV routes

These are permanently published ATS routes which shall be FLT-planned for use by RNAV equipped ACFT. They are identified by route designators in accordance with ICAO Annex 11.

8.3.2 Contingency RNAV routes

These are temporarily published ATS routes which can be FLT-planned for use by appropriately equipped ACFT. They are identified by route designators in accordance with ICAO Annex 11. These routes will be published for cases of specific need only (e.g. outage of NAV facilities, activation of temporarily reserved airspace).

8.3.3 Random RNAV routing

These routings are unpublished tracks which may be FLT-planned within designated and published random RNAV areas. For the time being there are no such areas designated within Switzerland.

8.3.4 Other applications of RNAV

There are specific direct routings assigned by ATC or on pilots' requests.

8.4 RNP 0.3 procedures for helicopter

RNP 0.3 routes (KYxyz) and associated routes (KQxyz) are designed for helicopter operation within Swiss Airspace in accordance with ICAO DOC 9613 Performance-based Navigation (PBN) Manual and DOC 8168.

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