

033 Flight Planning and Monitoring

033-02 Flight Planning for IFR Flights

MOC value in primary enroute: +1000 ft, 900-1500m terrain variation +1500ft, more terrain +2000ft

Chart alt suffixes .. a=MORA, T=MOCA, HF, use lower frequencies at night, max range up to 2000nm

033-03 Fuel Planning

033-03-02 Pre-flight fuel planning for commercial flights

with no alternate – take 15 min holding fuel

contingency fuel:

with enroute alternate, use 3% as contingency

- 5% of trip fuel (5% of trip fuel for the remainder of the flight when in-flight replanning)

ZFM = DOM + TL

extra fuel MTOM limitation = MTOM – ZFM – TOF

- 4% of trip fuel when an ERA is available

extra fuel MLM limitation = MLM – ZFM – LDG

TATRICOALADFIEX

fuel en-route alternate (ERA): should be located within a circle having a radius equal to 20% of total flight plan distance, the centre of which lies on the planned route at a distance from the destination aerodrome of 25% of the total flight plan distance, or at least 20% of the total flight plan distance plus 50 nm, whichever is greater

033-03-03 Specific fuel calculation procedures

PDP – pre-determined point procedure (take greater):

(1) (A-B via PDB) + CO + AD (jets: 2hrs at cruise, props: 45min + 15% of time or 2 hrs, whichever is less)

(2) (A-C via PDB) + CO + AD (Jets: 30 min, props: 45 min)

RCF – „reduced contingency“ or „decision point“ (DPP) or „reclearance procedure“ (take greater):

requires decision point (DP) and enroute alternate (ERA)

(1) (TF from A to B) + (5% of TF from DP to B)

(2) (TF from A to C) + (5% of TF from A to C)

isolated aerodrome procedure: fly for 2 hours after destination (cruise), final reserve included

033-04 Pre-flight Preparation

$$\text{Dist to PET} = \frac{\text{Dist} \times GS_{home}}{GS_{out} + GS_{home}}$$

LO.. Locator, LOC .. Localizer

$$\text{Time to PET} = \frac{\text{Dist to PET}}{GS_{out}}$$

PSR:

$$\text{Time from A to PSR} = \frac{\text{Endur} \times GS_{home}}{GS_{out} + GS_{home}}$$

- no wind: furthest from departure
- any wind: closer to departure

033-05 ICAO Flight Plan (ATS Flight Plan)

033-05-01 Individual Flight Plan

B	LPV
D	DME
F	ADF
G	GPS
H	HF RTF
I	INS
K	MLS
L	ILS
O	VOR
R	PBN
V	VHF RTF
W	RVSM
X	MNPS
Y	8.33 kHz

H	>=136000
M	>7000
L	<=7000

routes without ATS routes, points max 30 min/370km apart

033-05-02 Repetitive Flight Planning

at least 10 occasions or every day over a period of at least 10 consecutive days, IFR only?

033-05-03 Submission of an ATS Flight Plan (FPL)

file IFR 60 min prior to flight

file 3 h prior in ATFM airspace

delay: 30 min for controlled flight, 60 min for uncontrolled flight

notify ATS when time differences more than 2 min or 5%

during diversion, new aerodrome has to be notified 30 min prior