

Darren Smith, Certificated Flight Instructor • www.cfidarren.com

Cruising Altitudes

3000ft
3000ft
3000ft

Light Gun

On Ground

In Flight

Required Reports

Personal Preflight

FAA Flight Plan

VFR Minimums

Conversions

359° 10°

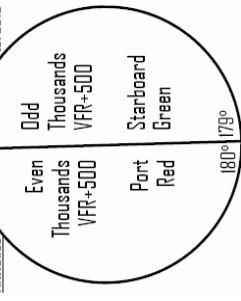
180° 179°

Even Thousands VFR-500

Port Red

Odd Thousands VFR-500

Starboard Green



Light Gun	On Ground	In Flight
Steady Green	Cleared for Takeoff	Cleared to Land
Flashing Green	Cleared to Taxi	Return to Land
Steady Red	Stop	Give Way
Flashing Red	Taxi Clear of Runway	Do not Land
Flashing White	Return to Ramp	Not Used
Alternating Red/Green	Warning-Use Caution	Warning-Use Caution

Emergency 121.5 Air to air 122.75/122.85/123.0/25
 Flight Watch 122.0 Unicom-Tower airports 122.95
 Mil VHF 126.2 Unicom: 122.1/122.725/122.8
 Multicom 122.9 122.975/123.0/123.05/123.075

Missed Approach
 Power Up-Full throttle
 Pitch Up- Vy
 Clean Up-gear/flaps/cowl
 Call It-"Missed Approach"
 Do It-Execute Missed Proc

Spin Recovery
 Power Idle
 Ailerons, neutral
 Rudder, opposite the spin
 Elevator, forward to break
 Dive recovery

Required Reports
 Holding (arriving/leaving)
 Altitude changes
 Missed approach
 Safety of flight issues
 Airspeed chg (5%/10kts)
 Comm/Nav loss
 Climb rate (<500fpm)
 Arrival at clearance limit
 Non radar: FAF, ETA>3min
 Comp reporting fixes ▲

Personal Preflight
 Illness
 Medication
 Stress
 Alcohol/Drugs
 Fatigue
 Eating/Emotion
PIREP Format
 Location
 Time
 Altitude
 Aircraft Type
 Clouds
 Weather
 Temp
 Wind
 Turbulence
 Icing
 Remarks

FAA Flight Plan
 1. VFR/IFR
 2. Aircraft ID
 3. Act Type
 4. TAS
 5. Departure
 6. Dep Time(Z)
 7. Cruising Alt
 8. Route of fit
 9. Destination
 10. Est Enroute
 11. Remarks
 12. Fuel on Board
 13. Alternate
 14. Pilot Name
 15. Nbr Aboard
 16. Act Color
 17. Dest Contact
Eqmnt Suffixes
 /X no xponder
 /A DME+modeC
 /U mode C only
 /G GPS

Anytime You Use a VOR
 Tune the VOR
 Identify the VOR
 Verify VOR freq, heading
 Orient on course/chart

Clearance
 Cleared to...
 Route of flight
 Initial & expected alt
 Frequency, departure
 Transponder code
Pop Up IFR
 #2, #3 then
 Current position,
 Altitude & Request

Emergency
 Airspeed, best glide
 Best Field
 Checklist, restart
 Declare Emergency/
 Communicate

VFR Minimums
 Generally 3sm,
 1000' abv, 500' blw,
 2000' lateral,
 EXCEPT Clr of Cls:
Cl B=3sm,
Cl G(day)=1sm,
Special VFR=1sm,
Cl E> 10k=5sm,
 1000' abv & blw,
 1sm lateral
Cl A=IFR only
IFR Emergency
 Level the wings
 Fix the airspeed
 Check altitude
Chart Distances
 VFR Terminal Area:
 3.5 NautMile/Inch
 VFR Sectional:
 7 NautMile/Inch
 WAC Charts:
 14 NautMile/Inch

Conversions
 InchHg*33.86=Milibar
 Inch 2.54=CentIM
 Feet*30.48=CentIM
 Meters*3.281=Feet
 Meters*1.094=Yards
 Litres*.264=USGallons
 USGals*3.785=Litres
 Litres*.22=ImpGals
 ImpGals*4.546=Litres
 USGals*.833=ImpGals
 Gram*.03527=Ounce
 Ounce*28.35=Grams
 KG*2.205=Pound
 Pound*.4536=KGram
 S.Mile*1.609=KIOM
 KIOM*.6218=S.Mile
 S.Mile*.869=NautMile
 NautMile*.11516=S.Mile
 MPH*88=Feet/Min
Time Zones (Z)
 EST+5-Z EDT+4-Z
 CST+6-Z CDT+5-Z
 MST+7-Z MDT+6-Z
 PST+8-Z PDT+7-Z

<u>International Phonetic Alphabet</u>	
Alpha ••	November •••
Bravo ••••	Oscar •••••
Charlie •••••	Papa ••••••
Delta •••••	Quebec ••••••
Echo •	Romeo ••••
Foxtrot •••••	Sierra ••••
Golf ••••	Tango ••
Hotel ••••	Uniform ••••
India ••	Victor •••••
Juliet •••••	Whiskey •••••
Kilo ••••	X-ray •••••
Lima •••••	Yankee •••••
Mike •••	Zulu ••••••

Approach Briefing
W—Weather (ats/awos)
I—Instruments, Compass
R—Radios tuned, Marker Bcn
E—Elevation, Altimeter
T—Talk to ATC, Timer ready
A—Altitudes, MDA/DH
P—Procedure for Missed
Pre-Landing Checks
C—Carb Heat, as needed
G—Gas, Pumps, Mixture
U—Undercarriage
M—Mixture
P—Props
S—Switches lights/pumps
Shutdown
Avionics
Mixture/Master/Mags
Transponder
7500-Hijack
7600-Lost Comm
7700-Emergency

Required Instruments Preflight
G-Generator/Alternator
R-Radios, appropriate for flight
A-Altimeter, sensitive
B-Ball, Slip/Skid Indicator
C-Clock/Timer
A-Attitude Indicator
R-Rate of Turn Indicator
D-Directional Gyro
Pre-Takeoff Checks
Lights—navs, strobes, landing
Camera—transponder on
Action—Fuel related items (on
mains/both, pumps on,
mixture set, flaps & trim
After Landing Checks
M-Mixture set T-Transponder
F-Flaps Up S-Switches
A-Aux pumps (pumps,
C-Cowl flaps lights, pitot)
VDR Checks—In the past 30 days
All ±4° except airborne ckpoint ±6°
Record date, place, bearing error.
signature.

Cleared for Approach
T—Turn to heading
T—Timer, start it
T—Twist DBS to course
T—Throttle set
T—Talk (procedure turn
inbound/enter hold)
T—Track inbound
T—Tires, GUMPS
Radio Failure, IFR
Cleared—Expected—Filed
Position Report
A-Aircraft ID
P-Position (fix name)
T-Time crossing fix
T-Time of Flight (VFR/IFR)
A-Altitude
E-Est Time of next fix
N-Name of next fix
R-Remarks, unexpected wx
Last? Climb-Communicate-
Confess-Comply-Conserve

Operation	Power +	Pitch =	Performance	
Climb			KIAS	FPM
Holding			KIAS	FPM
Cruise				
Descent			KIAS	FPM
Approach				
Descent	GEAR/FLAPS		KIAS	FPM
Circling				
Level Off	GEAR/FLAPS		KIAS	FPM