



DEPARTAMENTO “SEGURIDAD OPERACIONAL”
 “SUBDEPARTAMENTO “LICENCIAS”

“PIPER SÉNECA PA-34-220T”
CC-DNV

A.- OPERATING LIMITATIONS

1.- Limitations (Speed)

	KIAS
Va 4.750	140
Va 3.205	114
Vne	205
Vno	166
Vfe	115
Vle	130
Vlo extending	130
Vlo retracting	108
Vmca	66
Vs	67
Vso	64
Vx	76
Vy	92
Vsse	85
Vxse	78
Vyse	92
Vr	79
Vapp (Flap DN)	82
Max Cross Wind	17

2.- Fuel (U.S. GAL)

Type to Use	100/130
Total Capacity	128
Usable Capacity	123
Fuel Pressure (PSI)	
Minumum	3.5
Maximum	21.0

3.- Weight (LBS)

Maximum TAKE-OFF	4.750
Maximum Baggaje FWD	100
Maximum Baggaje AFT	100

4.- Engine (Maximum Continuous Power)

Engine Operating Limitations	
Reason HP o BHP	TOP 220/ MCP200
Maximum RPM	2.800 / 2.600
Static RPM (ground)	
Maximum	2.600
Minumum	500
Cylinder Head Temperature (°F)	
Maximum	460
Minumum	200
Exhaust Gas Temperature (°F)	
Maximum	1.650
Minumum	1.200
Oil Temperature (°F)	
Maximum	240
Minumum	100
Oil Pressure (PSI)	
Maximum	100
Minumum	10

5.- Maneuvering Limits (Normal Cat.)

MANEUVERS	KIAS
Spin (Flaps UP)	Prohibited
Steep Turns 4.750	140

B.- EMERGENCIES PROCEDURES

1. ENGINE FAILURE DURING TAKEOFF (below 85 KIAS):

a.- If engine failure occurs during takeoff and 85 KIAS has not been attained :

THROTTLES **CLOSED BOTH IMMEDIATELY**
STOP STRAIGHT AHEAD

b.- If inadequate runway remains to stop:

THROTTLES **CLOSED**
BRAKES **APPLY MAXIMUM BRAKING**
BATERRY SWITCH **OFF**
FUEL SELECTORS **OFF**
CONTINUE **STRAIGHT AHEAD, TURNING TO AVOID**
OBSTACLES

2. ENGINE FAILURE DURING TAKEOFF (85 KIAS or above):

If engine failure occurs during takeoff ground roll or after lift-off with gear still down and 85 KIAS has been attained:

a.- If adequate runway remains,

THROTTLES **CLOSED**
LAND **IF AIRBORNE**
STOP STRAIGHT AHEAD

If runway remaining is inadequate for stopping, decide whether to abort or continue.

b.- If decision is made to continue,

HEADING	MAINTAIN
ESTABLISHING	A CLIMB
LANDING GEAR	RETRACT
ACCELERATE TO	92 KIAS (V_{YSE})
INOPERATIVE ENGINE	FEATHER

3. ENGINE FIRE IN FLIGHT:

a.- Affected engine:

FUEL SELECTOR	OFF
THROTTLE	CLOSE
PROPELLER	FEATHER
MIXTURE	IDLE CUT-OFF
HEATER	OFF
DEFROSTER	OFF
IF TERRAIN PERMITS LAND IMMEDIATELY	

4. ENGINE FIRE ON GROUND:

a.- If engine has not started:

MIXTURE	IDLE CUT-OFF
THROTTLE	OPEN
STARTER	CRANK ENGINE

If engine has already started and is running, continue operating to try pulling the fire into the engine.

If fire continues, extinguish with best available means.

b.- If external fire extinguish is to be applied.

FUEL SELECTOR VALVES	OFF
MIXTURE	IDLE CUT-OFF

5. EMERGENCY DESCENT

THROTTLE	CLOSE
PROPELLER	FULL FORWARD
MIXTURE	AS REQUIRED FOR SMOOTH OPERATION
LANDING GEAR	EXTEND
AIRSPEED	130 KIAS

6. OPEN DOOR (ENTRY DOOR ONLY)

If both upper and side latches are open, the door will trail slightly open and airspeed will be reduced slightly.

To close the door in Flight:

SLOW AIRPLANE	90 KIAS
CABIN VENTS	CLOSE
STORM WINDOWS	OPEN
IF UPPER LATCH IS OPEN	LATCH
IF SIDE LATCH IS OPEN	PULL ON ARMREST AND LATCH
IF BOTH LATCHES ARE OPEN	LATCH SIDE LATCH THEN TOP LATCH