



**DEPARTAMENTO “SEGURIDAD OPERACIONAL”**  
**SUBDEPARTAMENTO “LICENCIAS”**  
**SECCIÓN EVALUACIONES**

**“PIPER SÉNECA PA-34-220T”**

**A.- Limitaciones de Operación**

1.- Limitaciones (Velocidades)

	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.- Combustible (U.S. GAL)

Tipo a Utilizar	100/130
Capacidad Total	98
Combustible Usable	93
Presión de Combustible (PSI)	
Mínima	3.5
Maxima	21.0

3.- Pesos (LBS)

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

4.- Motor (Potencia Máxima Continua)

Limitaciones Operativas de Motor	
Razón HP o BHP	220
Máximas RPM	2.800
RPM estáticas (en tierra)	
Máximas	2.600
Mínimas	500
Cylinder Heat Temperatura (°F)	
Máximas	460
Mínimas	200
Exhaust Gas Temperatura (°F)	
Máximas	1.650
Mínimas	1.200
Temperatura de aceite (°F)	
Máxima	240
Mínima	100
Presión de aceite (PSI)	
Máxima	100
Mínima	10

5.- Limites de maniobras (Cat. Normal)

MANIOBRA	KIAS
Spin (Flaps UP)	Prohibido
Escarpados	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 :

<b>THROTTLES</b>	<b>CLOSED</b>
<b>STOP STRAIGHT AHEAD</b>	

b.- If inadequate runway remains to stop:

<b>THROTTLES</b>	<b>CLOSED</b>
<b>BRAKES</b>	<b>MAXIMUM BRAKING</b>
<b>BATTERY SWITCH</b>	<b>OFF</b>
<b>FUEL SELECTORS</b>	<b>OFF</b>
<b>CONTINUE</b>	<b>STRAIGHT AHEAD, TURNING TO VOID OBSTACLES AS NECESSARY</b>

### **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,

<b>THROTTLES</b>	<b>CLOSED</b>
<b>LAND</b>	<b>IF AIRBORNE</b>
<b>STOP</b>	<b>STRAIGHT AHEAD</b>

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

b.- If decision is made to continue,

<b>HEADING</b>	<b>MAINTAIN</b>
<b>ESTABLISHING</b>	<b>A CLIMB</b>
<b>LANDING GEAR</b>	<b>RETRACT</b>
<b>ACCELERATE TO</b>	<b>92 KIAS ( V<sub>YSE</sub> )</b>
<b>INOPERATIVE ENGINE</b>	<b>FEATHER</b>

**3. ENGINE FIRE IN FLIGHT:**

a.- Affected engine:

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

**4. ENGINE FIRE ON GROUND:**

a.- If engine has not started:

<b>MIXTURE</b>	<b>IDLE CUT-OFF</b>
<b>THROTTLE</b>	<b>OPEN</b>
<b>STARTER</b>	<b>CRANK ENGINE</b>

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.

<b>FUEL SELECTOR VALVES</b>	<b>OFF</b>
<b>MIXTURE</b>	<b>IDLE CUT-OFF</b>

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.

SLOW AIRPLANE	TO 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 UPPER LATCH