



DEPARTAMENTO “SEGURIDAD OPERACIONAL”
SUBDEPARTAMENTO “LICENCIAS”
SECCIÓN EVALUACIONES

“PIPER NAVAJO PA-31”

“EMPRESA AÉREA SAN RAFAEL”

A.- Limitaciones de Operación

1.- Limitaciones (Velocidades)

	CIAS
Va	159
Vne	236
Vno	187
Vfe	130
Vle	130
Vmca 15°	74
Vs	70
Vso	63
Vx	80
Vy	96
Vyse	96
Vr	74
Max Cross Wind	20

2.- Combustible (U.S.)

Tipo a Utilizar	100/130
Capacidad Total	192
Combustible Usable	190
Presión de Combustible (PSI)	
Mínima	25
Máxima	45

3.- Pesos (LBS)

Máximo TAKE-OFF	6.500
Máximo Baggaje FWD	150
Máximo Baggaje AFT	200

4.- Motor (Potencia Máxima Continua)

Limitaciones Operativas de Motor	
Razón HP o BHP	310
Máximas RPM	2.575
Exh. Gas Temp. (°F)	
	1.650
Cyl. Heat Temp. (°F)	
	500
Temperatura de Aceite (°F)	
Máxima	245
Mínima	50
Presión de Aceite (PSI)	
Máxima	100
Mínima	25

5.- Límites de Maniobras (CIAS)

Spin (Flaps UP)	PROHIBIT
Escarpados	PROHIBIT

B.- Emergencies Procedures

1.- ENGINE FAILURE DURING TAKEOFF (BELOW 98 MPH)

a. - Adequate Runway Remaining:

Throttle	CUT IMMEDIATELY
Brakes	AS REQUIRED
Stop Straight Ahead	

b. - Inadequate Runway Remaining:

Throttle	CLOSE IMMEDIATELY
Brakes	AS REQUIRED
Mixture	IDLE CUT-OFF
Master Switch	OFF
Fuel Selector Valves	OFF
Magnetos Switch	OFF

Continue straight ahead turning to avoid obstacles, if necessary.

2. - ENGINE FAILURE DURING CLIMB

Follow	FEATHERING PROCEDURE
Single engine best rate	96 KIAS
Cylinder head temperature	ADJUST COWL FLAPS

3. - POWER PLANT FIRE ON THE GROUND

Firewall Shut-off Valve **OFF**

Boost Pump **OFF**

If engine running:

Advance power **Use fuel in engine rather than for fire.**

If fire is contained within cowling:

Keep engine **STARTER**

In case of a gasoline fire outside the cowling and on the ground:

Taxi **AWAY FROM FIRE IF POSSIBLE**

4. - POWER PLANT FIRE IN FLIGHT

Firewall Shut-off Valve **OFF**

Follow **FEATHERING PROCEDURE**

Land at nearest suitable airfield