



DEPARTAMENTO “SEGURIDAD OPERACIONAL”
SUBDEPARTAMENTO “LICENCIAS”
SECCIÓN EVALUACIONES

“PIPER NAVAJO PANTHER PA - 31”

“JOSÉ ANTONIO URRUTIA RIESCO CC-POJ”

A.- Operations Limitations

1.- Limitaciones (KIAS)

Va	155
Vne	230
Vno	180
Vfe 15°	158
Vfe 25°	158
Vle	152
Vlo (Extensión)	152
Vlo (Retraction)	127
Vmca	78
Vs	78
Vso	70
Vx	85
Vy	100
Vsse	87
Vxse	93
Vyse	106
Vbalked landing	106
Vapp (Flap DN)	127
Max Cross Wind	20

2.- Combustible (U.S. GAL)

Tipo a Utilizar	100/130
Capacidad Total	242
Combustible Usable	233.4
Presión de Combustible (PSI)	
Máxima	55
Mínima	34

3.- Pesos (LBS)

Máximo TAKE-OFF	6.500
Máximo Baggaje FWD	150
Máximo Baggaje AFT	200
Nacelle (ea/o)	150

4.- Motor (Potencia Máxima Continua)

Limitaciones Operativas de Motor	
Razón HP o BHP	350
Máximas RPM	2.575
Temperatura Cabeza de Cilindros (°F)	
Máxima	475
Mínima	100
Temperatura de aceite (°F)	
Máxima	245
Mínima	50
Presión de aceite (PSI)	
Máxima	100
Mínima	25

5.- Limites de Maniobras (Cat. Normal)

Maneuver	Entry Speed
Spins	Prohibido

B.- Emergencies Procedures

1.- ENGINE FAILURE DURING NORMAL TAKEOFF (83 KIAS or below)

a.- If Sufficient runway remains for a safe stop:

Throttle : CLOSE
Brakes : AS REQUIRED
Stop Straight Ahead

b.- If Insufficient runway remains for a safe stop:

Throttle : CLOSE
Mixture : OFF
Master Switch : OFF
Fuel Selector : OFF
Magnetos Switches : OFF

Maintain directional control and maneuver to avoid obstacles.

2.- ENGINE FAILURE DURING NORMAL TAKEOFF (above 83 KIAS)

Directional Control : MANTAIN
Power (Oper. Engine) : MAX. CONTINUOUS
Propeller Control (Inop. E.) : FEATHER
Landing Gear : UP
Bank : 5° INTO OP. E.
Airspeed : ACCLERATE TO 88 Kias
Cowl Flaps (Inop. Eng.) : CLOSE
Airspeed : 106 Kias AFTER OBSTACLES CLEARED
Engine Securing Procedures : COMPLETE

Land as soon as practical at the nearest suitable.

3.- ENGINE FAILURE DURING FLIGHT (ABOVE 78 KIAS)

Inoperative engine : IDENTIFY
Operative engine : ADJUST AS REQUIRED
Airspeed : ABOVE 106 KIAS

Before securing inoperative engine:

Fuel Flow : CHECK (IF DEFICIENT EM. FUEL PUMP ON)
Fuel Quantity : CHECK
Fuel Selector (inop. Eng.) : CHANGE
Oil pressure and temperature : CHECK
Magneto switches : CHECK
Air Start : ATTEMP

If engine does not start, complete Engine Securing Procedure

4.- ENGINE FEATHERING PROCEDURE

Throttle : CLOSE
Propeller (1000 RPM Min) : FEATHER
Mixture : MIXTURE
Cowl Flap : OFF
Air Conditioner : OFF

5.- ENGINE FIRE ON GROUND

Firewall Fuel Shutoff	: OFF
Emergency Fuel Pump	: OFF
Boost Pump CB	: PULLED
Brakes	: AS REQUIRED
Throttle (affect engine)	: OPEN
Radio	: CALL FOR ASSISTANCE
Mixture (if fire persists)	: IDLE CUT OFF
External fire extinguisher	: USE

If fire continues, shutdown both engines and evacuate.

If fire is on the ground, it may be possible to taxi away.

6.- ENGINE FIRE IN FLIGHT

Throttle	: IDLE
Mixture	: OFF
Firewall Fuel Shutoff	: OFF
Engine	: COMPLETE SECURING PROCEDURES

If fire persists:

Airspeed	: INCREASE
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Land at nearest suitable airport.