



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

**“PIPER NAVAJO PA-31-310”**  
**SERVICIOS AEREOS PEWEN**

**A.- Limitaciones de Operación**

1.- Limitaciones	
	<b>KIAS</b>
Va	<b>159</b>
Vne	<b>236</b>
Vno	<b>187</b>
Vfe (FULL)	<b>130</b>
Vle	<b>130</b>
Vmca 15°	<b>74</b>
Vs	<b>70</b>
Vso	<b>63</b>
Vx	<b>83</b>
Vy	<b>96</b>
Vxse	<b>92</b>
Vyse	<b>96</b>
Vr	<b>85</b>
Vapp (Flap DN)	<b>90</b>
Max Cross Wind	<b>20</b>

**2.- Combustible (U.S. GAL)**

Tipo a Utilizar	<b>100/130</b>
Capacidad Total	<b>192</b>
Combustible Usable	<b>187</b>
<b>Presión de Combustible (PSI)</b>	
Mínima	<b>25</b>
Máxima	<b>45</b>

**3.- Pesos (LBS)**

Máximo TAKE-OFF	<b>6.500</b>
Máximo Baggaje FWD	<b>150</b>
Máximo Baggaje AFT	<b>200</b>

**4.- Motor (Potencia Máxima Continua)**

<b>Limitaciones Operativas de Motor</b>	
Razón HP o BHP	<b>310</b>
Máximas RPM	<b>2.575</b>
<b>RPM estáticas</b>	
Máximas	<b>2.575</b>
Mínimas	<b>500</b>
<b>Max. Exh. Gas Temp (°F)</b>	
	<b>1.650</b>
<b>Max. Cyl. Head Temp (°F)</b>	
	<b>500</b>
<b>Temperatura de aceite (°F)</b>	
Máxima	<b>245</b>
Mínima	<b>50</b>
<b>Presión de aceite (PSI)</b>	
Máxima	<b>100</b>
Mínima	<b>25</b>

**5.- Limites de maniobras (Cat. Normal)**

MANIOBRA	KIAS
Spin (Flaps UP)	<b>PROHIBIT</b>
Escarpados	<b>PROHIBIT</b>

## **B.- Emergencies Procedures**

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

#### **a. - Adequate Runway Remaining:**

Throttles	<b>CLOSE IMMEDIATELY</b>
Brakes	<b>AS REQUIRED</b>
Stop Straight Ahead	

#### **b. - Inadequate Runway Remaining:**

Throttles	<b>CLOSE IMMEDIATELY</b>
Brakes	<b>AS REQUIRED</b>
Mixture	<b>IDLE CUT-OFF</b>
Master Switch	<b>OFF</b>
Fuel Selector	<b>OFF</b>
Magneto Switches	<b>OFF</b>
Continue straight ahead turning to avoid obstacles, if necessary.	

### **2. - ENGINE FAILURE DURING CLIMB**

Follow	<b>FEATHERING PROCEDURE</b>
Single engine best rate	<b>96 KIAS</b>
Cylinder head temperature	<b>ADJUST COWL FLAPS</b>

### 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