



DEPARTAMENTO “SEGURIDAD OPERACIONAL”
SUBDEPARTAMENTO “LICENCIAS”

“CESSNA C-172 N (CC-SOE)”
“CLUB AÉREO DE OSORNO”

A.- Limitaciones de Operación

1.- Limitaciones (Velocidades)

	KIAS
Va	97
Vne	160
Vno	128
Vfe	85
Vs	47
Vso	41
Vx	59
Vy	73
Vr	55
Vapp (Flap DN)	55-65
Vplaneo	65
Max Cross Wind	15

2.- Combustible (U.S. GAL)

Tipo a Utilizar	100LL
Capacidad Total	54
Capacidad Usable	50

3.- Pesos (LBS)

Máximo TAKE-OFF	2300
Máximo Equipaje	120

4.- Motor (Potencia Máxima Continua)

Limitaciones Operativas de Motor	
Razón HP o BHP	160
Máximas RPM	2700
RPM estáticas	
Máximas	2400
Mínimas	2280
Temperatura de aceite (°)	
Máxima	245
Mínima	100
	.
Presión de aceite (PSI)	
Máxima	100
Mínima	25

5. Límites de maniobras (Cat Normal)

MANIOBRA	KIAS
Spin (Flaps UP)	Slow desaleration
Escarpados	95
Ocho Flojo	105
Chandela	105

B.- Emergencies Procedures

1.- ENGINE FAILURE DURING TAKEOFF RUN

Throttle	<u>IDLE</u>
Brakes	<u>APPLY</u>
Wing Flaps	<u>RETRACT</u>
Mixture	<u>IDLE CUT-OFF</u>
Ignition Switch	<u>OFF</u>
Master Switch	<u>OFF</u>

2. - ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

Airspeed	<u>65 KIAS (FLAPS UP)</u>
	<u>60 KIAS (FLAPS DOWN)</u>
Mixture	<u>IDLE CUT-OFF</u>
Fuel Selector Valve	<u>OFF</u>
Ignition Switch	<u>OFF</u>
Wing Flaps	<u>AS REQUIRED</u>
Master Switch	<u>OFF</u>

3. - ENGINE FAILURE DURING FLIGHT

Airspeed	<u>65 KIAS</u>
Carburetor Heat	<u>ON</u>
Fuel Selector Valve	<u>BOTH</u>
Mixture	<u>RICH</u>
Ignition Switch	<u>BOTH (or START if propeller is stopped)</u>
Primer	<u>IN AND LOCKED</u>

4. – FIRE DURING START ON GROUND

Cranking **CONTINUE** to get a start, which would suck the flames and accumulated fuel through the carburetor and into the engine.

a.- IF ENGINE START:

Power **1700** RPM for a few minutes

Engine **SHUTDOWN** and inspect for damage

b.- IF ENGINE FAILS TO START:

Throttle **FULL OPEN**

Mixture **IDLE CUT-OFF**

Cranking **CONTINUE**

Fire Extinguisher **OBTAIN** (have ground attendants obtain if not installer)

Engine **SECURE**

Master switch **OFF**

Ignition switch **OFF**

Fuel Selector valve **OFF**

Fire **EXTINGUISH** using fire extinguisher, wool blaket or dirt.

Fire Damage **INSPECT** repair damage or replace damage components or wiring before conducting anther flight.

5. - ENGINE FIRE IN FLIGHT

Mixture **IDLE CUT-OFF**

Fuel Selector Valves **OFF**

Master Switch **OFF**

Cabin heat and Air **OFF** (except overhead vent)

Airspeed **100 KIAS** (if fire not extinguished, increase glide speed to find an airspeed will provide an incombustible mixture)

Forced Landing **EXECUTE** (as describe in Emergency Landing wihtout Engine Power).