



DEPARTAMENTO “SEGURIDAD OPERACIONAL”
SUBDEPARTAMENTO “LICENCIAS”

“CESSNA SKYHAWK C-172SP NAVIII”
“CLUB AÉREO DE SANTIAGO”

A.- OPERATING LIMITATIONS

1.- Limitations Speed (KIAS)

Va (2550 lbs)	105
Vne	163
Vno	129
Vfe	110
Vs	48
Vso	40
Vx (sea Level)	62
Vy (sea Level)	74
Vr	55
Vapp (Flap DN)	60 – 70
Vglide	68
Max Cross Wind	15

2.- Fuel (U.S. GAL)

Type to Use	100/130
Total Capacity	56
Usable Capacity	53
2.1.- Oil (U.S. QTS.)	
Capacity	8

3.- Weight (LBS)

Maximum TAKE-OFF	2550
Maximum Baggage	120

4.- Engine (Maximum Continuous Power)

Engine Operating Limitations	
Reason HP o BHP	180
Maximum RPM	2700
Static RPM	
Maximum	2400
Minimum	2300
Oil Temperature (°F)	
Minimum	100
Maximum	245
Oil Pressure (PSI)	
Minimum	20
Maximum	115

5.- Maneuvering Limits (Normal Cat.)

MANEUVER	KIAS
Chandelles	105
Lazy Eights	105
Steep Turns	95
Stalls	SLOW DECELERATION

B.- EMERGENCY PROCEDURES

1. ENGINE FAILURE DURING TAKEOFF ROLL

Throttle Control **IDLE**

Brakes **APPLY**

2. ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

Airspeed **70 KIAS (FLAPS UP)**

65 KIAS (FLAPS DN)

3. ENGINE FAILURE DURING FLIGHT (Restart Procedures)

Airspeed **68 KIAS**

Fuel Shutoff Valve **ON**

Fuel Selector Valve **BOTH**

Fuel Pump Switch **ON**

Mixture Control **RICH**

4. FIRE DURING START ON GROUND

Cranking

CONTINUE

If engine Starts:

Power

1800 RPM (for a few minutes)

Engine

SHUTDOWN (inspect for damage)

If engine fails to start:

Throttle Control

FULL

Mixture Control

IDLE CUTOFF

Magnetos Switch

START (continue cranking)

Fuel Shutoff Valve

OFF

Fuel Pump Switch

OFF

Magnetos Switch

OFF

Stby Batt Switch

OFF

Master Switch (ALT and BAT)

OFF

5. ENGINE FIRE IN FLIGHT

Mixture Control

IDLE CUTOFF

Fuel Shutoff Valve

OFF

Fuel Pump Switch

OFF

Master Switch (ALT and BAT)

OFF

6. ELECTRICAL FIRE IN FLIGHT

Stby Batt Switch	OFF
Master Switch (ALT and BAT)	OFF
Cabin Vents	CLOSED
Cabin HT and Cabin Air Control Knobs	OFF
Fire Extinguisher	ACTIVATE

7. CABIN FIRE

Stby Batt Switch	OFF
Master Switch (ALT and BAT)	OFF
Cabin Vents	CLOSED
Cabin HT and Cabin Air Control Knobs	OFF
Fire Extinguisher	ACTIVATE

8. WING FIRE

Land and Taxi Light Switches	OFF
Nav Light Switch	OFF
Strobe Light Switch	OFF
Pitot Heat Switch	OFF