BELL 407 (B407)

A.- LIMITACIONES DE OPERACIÓN

1.- VELOCIDADES	
Vne Sea Level to 3000 feet	140
Vne Torque 93,5% to 100%	100
Vne with any door removed	100
Vne for steady autorotation	100
Max. crosswind hover	35
Max. Sideward and rearward	35

2.- ALTITUDE MAX. FEET	20.000

3.- SLOPE LANDING	%
Side slopes	10
Nose up slopes	10
Nose down slopes	5

4.- PLANTA DE PODER	
Productora de Gas (NG)	**RPM**
Continuos Operation	63 to 105
Max Continuos Operation	105
Transient, 10 seconds	105.1
Turbina de Poder (NP)	
Avoid Continuos Operations	68.4
Minimum	99%
Continuos Operation	99 to 100
Max Transient, 15 seconds	102,1

5.- LIM. FRENO DE ROTOR	
Rpm del rotor bajan de	40%

6.- PRESIÓN DE ACEITE	PSI
Minimum below 79% NG	50
Minimum below 79 to 94% NG	90
Minimum above 94% NG	115
Máximo	130
Máximo cold starts only	200
7.- TEMP. DE ACEITE	**°C**
Continuos Operation	0 to 107
Maximum	107
8.- TRANSMISION	
Presión de Aceite	**PSI**
Minimum	30
Continuos Operation	40 to 70
Maximum	70
Temperatura de Aceite	**°C**
Continuos Operation	15 a 110
Maximum	110
9.- ROTOR	
Con Poder	**%**
Continuos Operation	99 to 100
Maximum continuos	100
Sin Poder	**%**
Minimum	85
Continuos Operation	85 to 107
Maximum	107

B.- EMERGENCIES PROCEDURES

1. ENGINE FAILURE - HOVERING

Maintain	**HEADING AND ATTITUDE CONTROL**
Collective	**ADJUST TO CONTROL NR AND RATE OF DESCENT**
Increase	**PRIOR TO GROUND CONTACT TO CUSHION LANDING LAND**
Shut down	**HELICOPTER**

2. ENGINE FAILURE-INFLIGHT

Maintain	**HEADING AND ATTITUDE CONTROL**
Collective	**ADJUST AS REQUIRED TO MAINTAIN 85 TO 107 NR**
Ciclyc	**ADJUST TO OBTAIN DESIRED AUTOROTATIVE AIRSPEED. ATTEMPT ENGINE RESTART IF AMPLE ALTITUDE REMAINS**
Fuel Valve Switch	**OFF**
At low altitude:	
Throttle	**CLOSED**
Flare	**TO LOSE AIRSPEED**
Apply	**COLLECTIVE AS FLARE EFFECT DECREASES TO FURTHER REDUCE FORWARD SPEED AND CUSHION LANDING**

Upon	**GROUND CONTACT, COLLECTIVE SHALL BE REDUCE SMOOTHLY WHILE MAINTEINNING CYCLIC IN NEUTRAL OR CENTERED POSITION**
Completed	**HELICOPTER SHUTDOWN**

3. ENGINE FIRE ON GROUND

Throttle	**CLOSED**
Fuel Valve	**OFF**
Gen Switch	**OFF**
Batt Switch	**OFF**
Rotor Brake (if installed)	**ENGAGE EXIT HELICOPTER**

4. ENGINE FIRE DURING FLIGHT

Inflight	**IMMEDIATELY ENTER AUTOROTATION**
Throttle	**CLOSED**
Fuel Valve Switch	**OFF**
If time permits, Fuel Boost/XFR	
Circuit breaker switches	**OFF**
Execute	**AUTOROTATIVE DESCENT AND LANDING**
Batt Switch	**OFF**

5. COMPLETE LOSS OF TAIL ROTOR THRUST

HOVERING	**CLOSE THROTTLE AND PERFORM A HOVERING AUTOROTATION LANDING. A SLIGHT ROTATION CAN BE EXPECTED ON TOUCHDOWN.**
IN-FLIGHT	**REDUCE THROTTLE TO IDLE, IMMEDIATELY ENTER AUTOROTATION, AND MAINTAIN A MINIMUM AIRSPEED OF 55 KIAS. DURING DESCENT.**