



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

BELL 204/205/UH-1 SERIES (UH-1)

A.- LIMITACIONES DE OPERACIÓN

1.- VELOCIDADES	
Vne	124
Con carga externa	60
Vne with aft door removed	124
Vne one door open	50
Max. lateral flight	30
Max. backward flight	30
Estacionario con rachas	15
2.- PLANTA DE PODER	
Productora de Gas	RPM
Minimun	6400
Max Continuos Operation	6700
Temperatura gases	°C
Funcionamiento continuo	400-610
Max. puesta en marcha 5 seg.	675-760
3.- TORQUE LIMITS	
Maximun	PSI
	50

4.- PRESIÓN DE ACEITE MOTOR		PSI
Minimum		25
Normal		80-100
Máximo		100
5.- TEMPERATURA DE ACEITE		°C
Operation – 30°C		93
Operation + 30°C		100
6.- TRANSMISION		
Presión de Aceite		PSI
Minimum		30
Continuos Operation		40 to 60
Maximum		70
Temperatura de Transmisión		°C
Maximum		100
7.- ROTOR		RPM
Normal		294-324
Maximum		339

B.- EMERGENCIES PROCEDURES

1. ENGINE FAILURE

- Collective **ADJUST TO CONTROL RPM**
- Flare **PRIOR TO GROUND CONTACT TO CUSHION LANDING**
- Shut down **HELICOPTER**

2. ENGINE FAILURE-INFLIGHT

- Maintain **HEADING AND ATTITUDE CONTROL**
- Collective **ADJUST AS REQUIRED TO MAINTAIN RPM**
- Ciclyc **A JUST 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 MAINTAINING CYCLIC IN NEUTRAL OR CENTRED POSITION**
- Completed **HELICOPTER SHUTDOWN**

3. ENGINE FIRE ON GROUND

Throttle	CLOSED
Fuel Valve switch	OFF
Gen Switch	OFF
Batt Switch	OFF

4. ENGINE FIRE DURING FLIGHT

Inflight	IMMEDIATELY ENTER AUTOROTATION
Throttle	CLOSED
Fuel Valve switch	OFF
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.