NGINE FAILURE TAKEOFF ROL

1. THROTTLE	IDLE
2. BRAKES	APPLY
3. WING FLAPS	RETRACT
4. MIXTURE	IDLE/CUTOFF
5. IGNITION SWITCH	OFF
5. MASTER	OFF

ENGINE FAILURE - IMMED. AFTER TAKEOFF

1. AIRSPEED70KIAS (flaps u	up) 65 KIAS (flaps down)
2. MIXTURE	IDLE CUT OFF
3. FUEL SHUTOFF VALVE	OFF (pull full out)
4. IGNITION SWITCH	OFF
5. WING FLAPS	AS REQUIRED
6. MASTER SWITCH	OFF
7. CABIN DOOR	UNLATCHED
8 I VND	STRAIGHT AHEAD

ENGINE FAILURE DURING FLIGHT

(RESTART PROCEDURES)

......68 KIAS

2. FUEL SHUT	OFF VALVE	ON (push full in
3. FUEL SELEC	TOR VALVE	ВОТН
4. AUX FUEL P	UMP SWITCH	ON
5. MIXTURE	RICH (if res	tart has not occurred)
6. IGNITION SV	VITCHBÒTH (or START if propeller
	,	is stopped)

1. AIRSPEED.....

7. AUX FUEL PUMP SWITCH	OFF
If fuel flow drops to zero – aux pump	ON

ENGINE FIRE IN FLIGHT

1. MIXTURE	IDLE CUT OFF
2. FUEL SHUTOFF VALVE	PULL OUT (OFF)
3. AUX FUEL PUMP SWITCH	OFF
4. MASTER SWITCH	OFF
5. CABIN HEAT AND AIROI	FF (except overhead vents)
6. AIRSPEED	100 KIAS
(if fire is not extinguished, increase glid	
within airspeed limitations – which will p	provide an incombustible
mixture)	

7. FORCED LANDING - EXECUTE (as described in **Emergency Landing Without Engine Power)**

1. MASTER SWITCH	OFF
2. VENTS, CABIN AIR, HEAT	CLOSED
3. FIRE EXTINGUISHER	ACTIVATE
4. AVIONICS MASTER	OFF
5. ALL OTHER SWITCHES (except ignition	switch) OFF
WARNING	

AFTER DISCHARING FIRE EXTINGUISHER AND ASCERTAINING THAT FIRE HAS BEEN EXTINGUISHED **VENTILATE THE CABIN**

ECTRICAL FIRE IN FLIGH

continued 6. VENTS/CABIN AIR/HEAT.....OPEN

When it is ascertained that fire is completely extinguished. If fire has been extinguished and electrical power is necessary for continuance of flight to nearest airport or landing area.
7. MASTER SWITCHON
8. CIRCUIT BREAKERSCHECK for faulty circuit (do not reset)
9. RADIO SWITCHESOFF
10. AVIONICS MASTER SWITCHON
 RADIO/ELECTRICAL SWITCHES – ON one at a time with delay after each until short circuit is localized.
CABIN FIRE

1. MASTER SWITCH	OFF
2. VENTS/CABIN AIR/HEAT	CLOSED
3. FIRE EXTINGUISHER	ACTIVATE
ONCE FIRE IS OUT – VENTILATI	E CABIN
4. VENTS/CABIN AIR/HEAT	OPEN
5. LAND THE AIRPLANE AS SOON AS	POSSIBLE

ENGINE FIRE DURING START ON THE GROUN

1. IGNITION SWITCH START - CONTINUE CRANKING to get a start which would suck the flames and accumulated fuel into the engine.

If engine starts:

2. POWER	1800 rpm (for	r a few minutes)
3 FNGINE	SHUTDOWN (and i	inspect for damage)

If engine fails to start:

4. THROTTLE	
5. MIXTURE	
6. CRANKING	
7. FUEL SHUTOFF VALVE	OFF (pull full out)
8. AUX FUEL PUMP	
9. FIRE EXTINGUISHER	ACTIVATE
10. ENGINESECURE	
a. MASTER SWITCH	OFF
b. IGNITION SWITCH	OFF
11. PARKING BRAKE	RELEASE
12. AIRPLANE	EVACUATE
13. FIRE	EXTINGUISH
14. FIRE DAMAGE	INSPECT

WING FIRE

1. LANDING/TAXI LIGHT SWITCHES	OFF
2. NAVIGATION LIGHT SWITCH	OFF
3. STROBE LIGHT SWITCH	OFF
4. PITOT HEAT SWITCH	OFF

Perform a sideslip to keep the flames away from the fuel tank and cabin. Land as soon as possible using flaps only as required for final approach and touchdown

FORCED LANDING EMERGENCY

WITHOUT ENGINE POWER

1. PASSENGER SEAT BAC	KSMOST UPRIGHT
2. SEAT BELTS/SHOULDE	R HARNESSESSECURE
3. AIRSPEED70KIAS (fla	ps up) 65KIAS (flaps down)
4. MIXTURE	IDLE/CUTOFF
5. FUEL SELECTOR VALVE	OFF
6. IGNITION SWITCH	OFF
7. WING FLAPSAS	S REQ(30° recommended)
8. MASTER SWITCH	OFF (landing assured)
9. DOORS	.UNLATCHED (prior to landing)
10. TOUCHDOWN	SLIGHTLY TAIL LOW
11. BRAKES	APPLY HEAVILY

LOW OIL PRESSURE

- 1. IF A TOTAL LOSS OF OIL PRESSURE IS ACCOMPANIED BY A RISE IN OIL TEMPERATURE, THERE IS GOOD REASON TO SUSPECT AN ENGINE FAILURE IS IMMINENT.
- 2. REDUCE ENGINE POWER IMMEDIATELY AND SELECT A SUITABLE FORCED LANDING FIELD. USE ONLY THE MINIMUM POWER REQUIRED TO REACH THE DESIRED TOUCHDOWN SPOT

ENGINE ROUGHNESS

1. ENGINE INSTRUMENTSCHECK
2. FUEL SELECTOROTHER TANK
3. MIXTURERE-ADJUST FOR
SMOOTH OPERATIONS
4. MAGNETO/STARTERSELECT R OR L OR BOTH
IF ROUGHNESS DISAPPEARS ON SINGLE MAGNETO,
MONITOR POWER AND CONTINUE ON SELECTED
MAGNETO
SEE POH FOR POWER LOSS AND ROUGH ENGINE WARNINGS
5. THROTTLEREDUCE
CHECK TO SEE IF A LESSER THROTTLE SETTING CAUSES
ROUGHNESS TO DECREASE

IF SEVERE ENGINE ROUGHNESS CANNOT BE ELIMINATED LAND AS SOON AS PRACTICABLE.

ALTERNATOR OVERVOLTAGE

(ammeter shows overcharge)

- 1. ALTERNATOR SWITCH.....OFF 2. NON-ESSENTIAL EQUIPMENT.....OFF
- 3. LAND AS SOON AS PRACTICABLE.

LOW VOLTAGE

Illumination of the low voltage (VOLTS) annunciator In flight

1. AVIONICS MASTER	
IF VOLTS ANNUNCIATOR ILLUMINATES AGAIN 7. ALTERNATOROFF 8. NONESSENTIAL RADIO AND ELECTRICAL EQUIPMENTOFF	
9. FLIGHTTERMINATE AS SOON AS PRACTICAL	

AIRSPEEDS

Engine Failure after Takeoff	
Wing Flaps up	70 KIAS
Wing Flaps down	65 KIAS
Maneuvering Speed:	
2550 Lbs	105 KIAS
2200 Lbs	98 KIAS
1900 Lbs	90 KIAS
Max Glide (Vg)	68 KIAS
Precautionary Landing with Engine Pov	ver65 KIAS
Landing Without Engine Power	
Wing Flaps Up	70 KIAS
Win Flaps Down	65 KIAS

NOTE - INTENTIONAL SPINS PROHIBITED