Version 1 PR 34

Emergency Checklists

Engine Failure During Takeoff Roll	
Throttle	IDLE
Brakes	APPLY
Flaps	RETRACT
Mixture	CUT-OFF
Magnetos	OFF
Standby battery	OFF
Master (ALT and BAT)	OFF

Engine Fail	ure Immediately After
Takeoff	
Airspeed	Flaps up: 70 K

Airspeed		Flaps up: 70 KIAS
	Flaps	10°-FULL: 65 KIAS
Mixture		CUT-OFF
Fuel shutoff v	alve	OFF (pull full out)
Magnetos		OFF
Flaps	AS	REQUIRED (FULL
		recommended)
Standby batte	ry	OFF
Master (ALT a	nd BA	T) OFF
Door		UNLATCH
Land		STRAIGHT AHEAD

Engine Failure During Flight (Restart Procedures)

Airspeed 68 KIAS (best glide speed) Fuel shutoff valve ON (push full in) Fuel selector valve BOTH Fuel pump ON Mixture RICH (if restart has not occurred) Magnetos BOTH If propeller stopped: START, advance throttle slowly, lean mixture as required OFF Fuel pump

If fuel flow drops to zero, turn fuel

Emergency Landing Without Engine

pump back on

UPRIGHT, SECURE Seats, seatbelts Airspeed Flaps up: 70 KIAS Flaps 10°-FULL: 65 KIAS Mixture **CUT-OFF** OFF (pull) Fuel shutoff valve Magnetos OFF Flaps AS REQUIRED (FULL recommended) Standby battery OFF Master (ALT and OFF (when landing BAT) is assured) UNLATCH BEFORE Doors TOUCHDOWN SLIGHTLY TAIL LOW Touchdown **Brakes** APPLY HEAVILY

Precautionary Landing With Engine Seats, seatbelts UPRIGHT, SECURE Airspeed 65 KIAS Flane 209 Selected field FLY OVER, noting terrain and obstructions Flaps FULL (on final approach) Airspeed 65 KIAS Standby battery OFF Master (ALT and OFF (when landing BAT) assured) Doors UNLATCH BEFORE TOUCHDOWN SLIGHTLY TAIL LOW Touchdown Mixture **CUT-OFF** Magnetos OFF APPLY HEAVILY Brakes

Ditching MAYDAY on 121.5 MHz (Give Radio location, intentions)

SQUAWK 7700 Transponder Heavy objects (in SECURE or baggage area) JETTISON (if possible) Seats, seatbelts UPRIGHT, SECURE Flaps 20°-FULL Power 300 FT/MIN DESCENT AT 55 KIAS If no power available, approach flaps

up 70 KIAS or flaps 10° 65 KIAS Strong wind, heavy seas: LAND INTO

Light wind, heavy swells: LAND PARALLEL TO SWELLS

UNLATCH Doors LEVEL ATTITUDE at Touchdown

established rate of descent CUSHION at touchdown with folded coat

ACTIVATE Airplane EVACUATE THROUGH CABIN

DOORS If necessary, open window and flood cabin to equalize pressure so doors

can be opened. Life vests, raftINFLATE WHEN CLEAR OF AIRPLANE

Fire During Start on Ground

Magnetos switch START (continue cranking to start the engine) If engine starts: Power 1800 RPM for a few minutes Engine SHUTDOWN f engine fails to start: Throttle **FULL**

Mivture CUT-OFF Magnetos switch START (continue cranking) Fuel shutoff valve OFF (pull) Fuel pump OFF Magnetos OFF

Standby battery OFF Master (ALT and BAT) OFF Engine SECURE Parking brake RELEASE Fire extinguisher OBTAIN Airplane **EVACUATE EXTINGUISH** via fire

extinguisher, wool blanket, or

Both cases: inspect and repair damage before conducting another flight.

Engine Fire in Flight

Fire

Mixture CUT-OFF Fuel shutoff valve OFF (pull) Fuel pump OFF Master (ALT and BAT) OFF Cabin heat and air OFF (except overhead vents)

Airspeed 100 KIAS If fire not extinguished, increase speed to find an airspeed, within airspeed limitations, which provides an incombustible mixture

EXECUTE orced landing Refer to Emergency Landing Without **Engine Power checklist**

OFF

reset

ON

ON

ON

ON

Electrical Fire in Flight

Master (ALT and BAT)

Standby battery

Avionics (BUS 1)

Avionics (BUS 2)

Standby battery

Master (ALT and BAT)	OFF		
Vents/cabin air/heat	CLOSE		
Fire extinguisher	USE		
Avionics (BUS 1 and BUS	2) OFF		
All switches (except magi	netos) OFF		
Vents/cabin air/heat	OPEN		
When sure fire	is completely		
extinguished			
If fire extinguished and electrical			
power necessary to continue flight:			
Circuit breakers Cl	HECK, do not		

Cabin Fire		
Standby batte	ery OFF	
Master (ALT a	ind BAT) OFF	
Vents/cabin a	ir/ CLOSE (to avoid	
heat	drafts)	
Fire extinguis		
Vents/cabin a	ir/heat OPEN	
When sure fire is completely		
exti	nguished	
Land AS	AP to inspect for damage	

Emergency Checklists

Wing Fire Landing, taxi lights OFF Nav. strobe lights OFF Pitot heat OFF NOTE: Sideslip to keep flames away from fuel tanks and cabin. Land ASAP using flaps only as required for

Inadvertent Icing Encounter During Flight

final approach and touchdown.

Pitot heat ON Turn or change altitude to obtain an OAT less conducive to icing. **FULL ON** Cabin heat OPEN Defrosters Cabin air **ADJUST** Maximize defroster heat and airflow Induction icina MONITOR Adjust throttle to hold RPM. Adjust mixture as needed for any change in power settings

Land NEAREST AIRPORT With an extremely rapid ice build-up, select suitable off-airport landing site With ≥ 1/4 inch of ice on the leading edges, prepare for significantly higher stall speed

LEAVE RETRACTED Flans Open left window and scrape ice from windshield, if necessary for visibility

Forward slip if necessary for visibility Approach speed 65-75 KIAS Depending on level of accumulation Perform in level attitude Avoid missed approaches if possible Missed approaches should be avoided whenever possible

Static Source Blockage (Erroneous Instrument Reading Suspected)

Alternate static PULL ON Cabin heat/air **PULL ON** Vents CLOSED Airspeed Consult calibration table Section 5, Figure 5-1 of POH

Excessive Fuel Vapor (Fuel Flow Stabilization Procedures)

If flow fluctuates ≥ 1 GPH or power surges occur Fuel pump ON **ADJUST** Mixture as necessary for smooth operation Fuel selector valve SELECT OTHER TANK (if symptoms continue) Fuel pump OFF (after fuel flow stabilized)

Landing With a Flat Main Tire

Approach NORMAL Flaps FULL Touchdown GOOD MAIN TIRE FIRST Keep flat tire in air as long as possible with aileron control Directional control MAINTAIN using brake on good wheel as required

Landing With a Flat Nose Tire

Approach NORMAL Flaps AS REQUIRED Touchdown ON MAINS Hold nosewheel off ground as long as possible, maintain full up elevator as airplane slows to stop

HIGH VOLTS or M Bat Amps > 40

Master (ALT only) Reduce Electrical Load checklist RUN

LOW VOLTS Annunciator Comes On < 1000 RPM

1000 RPM Throttle Low voltage annunciator VERIFY OFF If annunciator remains on, run "LOW VOLTS Annunciator On ≥ 1000 RPM" checklist, and have electrical system inspected before next flight

LOW VOLTS Annunciator On ≥ 1000

Master (ALT only) OFF ALT FIELD breaker CHECK IN Master (ALT and BAT) ON LOW VOLTS **VERIFY OFF** annunciator) M Bus volts VERIFY 27.5V minimum **VERIFY POSITIVE** M Bat amps If LOW VOLTS annunciator remains Reduce Electrical Load RUN

Reduce Electrical Load

cannot be tuned

checklist

Avionics (BUS 1) Pitot heat OFF Beacon, taxi, nav, strobe lights Landing light OFF (use as reg'd for landina) Cabin power 12V OFF Note: When M bus volts drops below 20V, the standby battery will supply power to the essential bus for at least 30 minutes COM1, NAV1 TUNE COM1 MIC and NAV1 SELECT If COM2 MIC and NAV2 are selected when avionics bus 2 is off, the radios

OFF

Avionics (BUS 2) OFF if clear of The following items will not operate:

autopilot, COM2, transponder, audio panel, NAV2, MFD AS SOON AS PRACTICAL

Make sure a successful landing is possible before extending flaps. Flap motor is a large electrical load.

Red X - PFD Airspeed Indicator

ADC/AHRS circuit breakers CHECK IN (ESS BUS and AVN BUS 1) If open, reset circuit breaker. If circuit breaker opens again, do not reset Standby airspeed USE for airspeed indicator information

Red X - PFD Altitude Indicator

ADC/AHRS circuit breakers CHECK IN (ESS BUS and AVN BUS 1) If open, reset circuit breaker, If circuit breaker opens again, do not reset Standby altimeter CHECK current barometric pressure SET, USE for altitude

Red X - PFD Attitude Indicator

ADC/AHRS circuit breakers CHECK IN (ESS BUS and AVN BUS 1) If open, reset circuit breaker. If circuit breaker opens again, do not reset Standby attitude USE for attitude indicator information

Red X - Horizontal Situation Indicator

ADC/AHRS circuit breakers CHECK IN (ESS BUS and AVN BUS 1) If open, reset circuit breaker. If circuit breaker opens again, do not reset Magnetic compass USE for heading information

PFD1 COOLING or MFD1 COOLING Annunciator(s)

Cabin heat REDUCE (minimum preferred) Forward avionics CHECK (feel for airflow from screen on glareshield)

f forward avionics fan failed: Standby battery OFF unless needed

for emergency power If PFD1 COOLING or MFD1 COOLING

annunciator does not go off within 3 minutes or if both annunciators come

Standby battery OFF (land as soon as practical)

LOW VACUUM Annunciator Comes

Vacuum indicator CHECK EIS ENGINE page to make sure vacuum pointer is within green arc

If vacuum pointer not in green arc or gyro flag shows on standby attitude indicator, do not use standby attitude indicator

High Carbon Monoxide (CO) Level

OFF (push full in) Cabin heat Cabin air ON (pull full out) Cabin vents OPEN Windows OPEN (163 KIAS maximum windows open speed) If high CO level remains:

Land AS SOON AS PRACTICAL